BODY BUILDER MANUAL

FOR

2015 CHEVROLET CITY EXPRESS

ELECTRICAL SECTION

Note to User:
As part of our mission to provide an up-to-date website that includes detailed Body Builder Manuals, Technical Bulletins, and Best Practice Manuals, we are now using sectional excerpts directly from the General Motors Service Information publications for our Electrical Body Builder Manuals.

You will note that the section numbers are non-sequential as we have provided only those that are believed to be the most pertinent to the Upfitter community and best suited to their needs.*

This new usage of the Service Information provides the opportunity for us to remain consistent with the changes that take place throughout the model year and to provide you updated information in a more timely fashion.

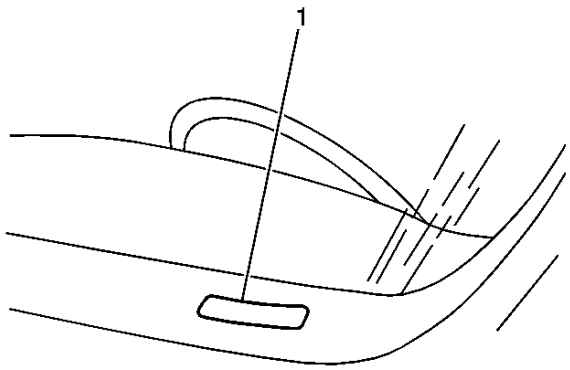
**** If you would like to have access to all of the electrical Service Information, please apply for a subscription from ACDelco at http://acdelcotechconnect.com/html/tss_tech_esi.jsp***

General Information

General Information

Introduction

Vehicle, Engine and Transmission ID and VIN Location, Derivative and Usage



The VIN plate is the legal identifier of the vehicle. The VIN plate (1) is located on the upper left corner of the instrument panel (I/P) and can be seen through the windshield from the outside of the vehicle:

Vehicle Identification Number (VIN) System

Position	Definition	Character	Description
1	WMI	3	3 = Built in Mexico N = Manufactured by Nissan for General Motors 6 = Truck
2		N	
3		6	
4	Make/Engine	3	Chevrolet with L0A engine
5	Series	M	City Express
6		0	
7	Trim Level/Vehicle Type	Y/Z	Y = LS, Cargo Van Z = LT, Cargo Van
8	Safety Devices	N	2 Seating Capacity, 2WD, Class C “60”, Driver & Passenger, 3-Point Manual Belts, Frontal Air Bags, Side Air Bags, & Curtain Side Air Bags
9	Check Digit	X	(0 to 9 or X) The code for the check digit is determined by a mathematical computation.
10	Model Year	F	2015 Model Year
11	Plant Location	K	NME – Curenevaca Mexico
12–17	Plant Sequence Number	—	Plant Sequence Number

Engine Identification Plate

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Transmission Identification Plate

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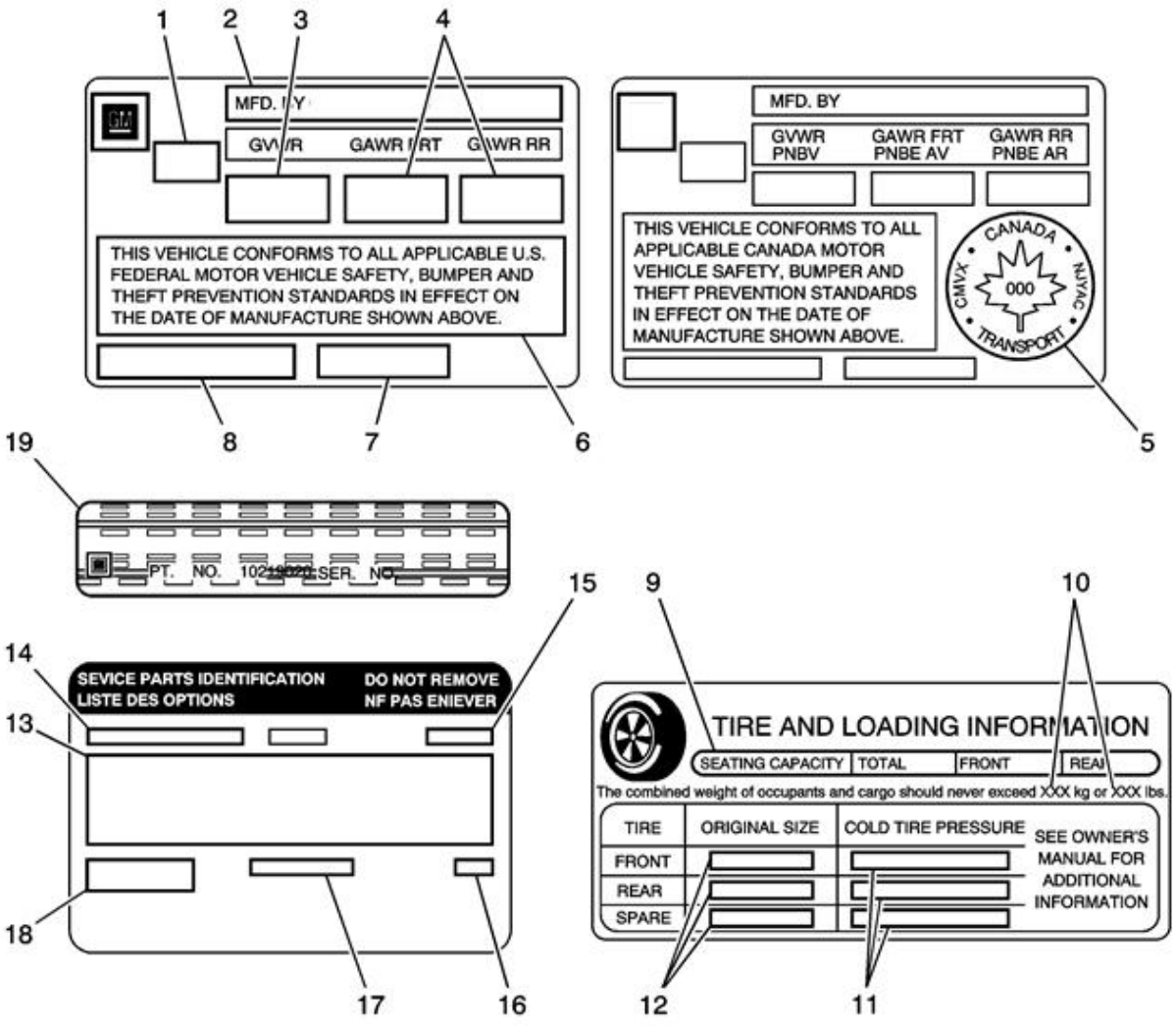


Vehicle Certification, Tire Placard, Anti-Theft, and Service Parts ID Label

Callout	Description
Vehicle Certification Label The vehicle certification label is located on the driver door and displays the following assessments: • Gross Vehicle Weight Rating (GVWR) • Gross Axle Weight Rating (GAWR), front and rear • The gross vehicle weight (GVW) is the weight of the vehicle and everything it carries. The GVW must not exceed the GVWR. Include the following items when figuring the GVW: – The base vehicle weight (factory weight) – The weight of all vehicle accessories – The weight of the driver and the passengers – The weight of the cargo	
1	Date of Manufacture (Mo/Yr)
2	Name of Manufacturer
3	Gross Vehicle Weight Rating
4	Gross Axle Weight Rating (Front, Rear)

5	Canadian Safety Mark (w/RPO Z49)
6	Certification Statement
7	Vehicle Class Type (Pass Car, etc.)
8	Vehicle Identification Number

Tire Placard

The tire placard label is located on the driver side B pillar and displays the following assessments:

9	Specified Occupant Seating Positions
10	Maximum Vehicle Capacity Weight
11	Tire Pressure, Front, Rear, and Spare (Cold)
12	Original Equipment Tire Size

Service Parts ID Label

The vehicle service parts identification label is located on the rear compartment floor. The label is use to help identify the vehicle original parts and options.

13	Vehicle Option Content
14	Vehicle Identification Number
15	Engineering Model Number (Vehicle Division, Line and Body Style)
16	Interior Trim Level and Decor
17	Exterior (Paint Color) WA Number
18	Paint Technology

Anti-Theft Label

19	The Federal law requires that General Motors label certain body parts on this vehicle with the VIN. The purpose of the law is to reduce the number of motor vehicle thefts by helping in the tracing and recovery of parts from stolen vehicles. Labels are permanently affixed to an interior surface of the part. The label on the replacement part contains the letter R, the manufacturer's logo, and the DOT symbol. The anti-theft label must be covered before any painting, and rustproofing procedures, and uncovered after the procedures. Failure to follow the precautionary steps may result in liability for violation of the Federal Vehicle Theft Prevention Standard and possible suspicion to the owner that the part was stolen.

RPO Code List

The following table provides the description of the RPO codes that are available on the vehicle. The vehicles RPO list is printed on the Service Parts Identification Label.

RPO Code List

RPO	Description
1LS	Package
1LT	Package, with LT badge
2QU	Black
5AZ	ACCESSORY - UNIVERSAL SAFETY KIT
9C6	GVW Rating - 4,751 LBS
A31	Windows - Power
ACO	IDENTIFICATION-ACCESSORY CATALOG OFFERING
AG6	Seat - 4-Way Passenger Seat (Slide and Recline)
AH4	Seat - 6-Way Driver Seat (Slide, Recline, and Height)
AK5	Airbags - Driver and Passenger Front
AS5	Seats w/ Driver armrest - Dual Cloth Bucket
ASF	Airbag - 1st Row Front Side and Curtain Airbag
ATG	Remote Keyless Entry (2 FOBs)
AU3	Door Locks - Power
AXK	Vehicle Type- Truck
B31	Vinyl Flooring - 1st Row
C49	Eletronic RR Defogger (60% Rear door only)
C60	Air Conditioning (Manual Control)
CWM	Technology Package
D31	Mirror Inside Rear view
D72	Door Handles - Black
D75	Door Handles - Body Color
DAP	Mirror - Outside Black- Manual Adjust and Fold
DE5	Mirror - Body Color
DR6	Mirror - Outside Heated w/Power
EF7	Country United States America (USA)
FE9	Federal Emission Certification

FHO	Vehicle fuel Galsoline E10
GQX	White
GR1	Blue
I15	Engineering Year 2015
J0U	Red
J6M	Brakes Pwr, FRT Disc, RR Drum
JE5	Antilock Brakes (ABS)
JFA	Parking Brake (Foot)
JL4	Control Active Brake
K0U	Silver
K34	Eletronic Cruise Control
KG4	GENERATOR-150 AMP
L0A	Engine - Gas 4 cyl, 2.0L, I4, City Express Only
MAH	MARKETING AREA-US, PUERTO RICO/USVI
MBC	MARKETING AREA-CANADA
MRA	Transmission - CVT - Front Wheel Drive
NB8	California Emission Override
NB9	EMISSION OVERRIDE-EMISSIONS OVERRIDE, STATE-SPECIFIC
NC7	Federal Emission Override
NE1	Geographically Restricted Registration Emission for Vehicles up to 14,000 lbs GVW
NK5	Steering Wheel - Standard
NME	Plant Code - Curenevaca
NT7	Federal Emission Certification, Tier 2
NU5	California Emission Override BIN 4
NUA	California Emission Override 150K LEV 2
PB1	15" Wheel Covers
QTY	Tire ALL - 185/60R15C 94/92T TL
RBI	Tire Spare - Full Size with Steel Wheel
RRG	15" Aluminum Wheel
RRJ	15" Steel Wheel

RWU	ACCESSORY-CARGO AREA ORGANIZER - COLLAPSIBLE
RYT	ACCESSORY - FIRST AID KIT
T4A	Front Headlamp - Halogen
T61	Daytime Running Lamps
TGA	Language Control-English, French, Spanish
TL8	Grille - Dark Silver with Black Accents
U19	Speedometer, Miles/Kilo
U1B	Radio-AM/FM CD Player
U1B	Radio-AM/FM CD Player
U1B	Radio-AM/FM CD Player
U2J	XM Radio Delete
U2K	XM Radio
U73	Fixed Radio Antenna
UAD	Speakers FR (6.5") - 2
UD7	Rear Park Assist
UE0	OnStar® Delete
UF2	Lamp - Dome & Cargo (different than Aries base)
UFA	Outside Temperature Display
UHV	Radio-AM/FM Nav, DVD-Rom, CAF, HDD, USB, RSA, RSE
UJM	Tire Pressure Monitoring with outside fill level warning
UP9	Bluetooth w/Steering Wheel Controls
UPF	Bluetooth w/Steering Wheel Controls
USR	USB Receptacle
UVC	Rear Vision Camera
V22	Grille - Chrome with Black Accents
V34	Bumpers - Black FR and RR
V35	Bumpers - Body Color FR and RR
V8D	Vehicle Statement - US
V8E	Vehicle Statement - Canada
VAV	ACCESSORY-FLOOR MATS - ALL WEATHER

VAV	ACCESSORY-FLOOR MATS - ALL WEATHER
VAV	ACCESSORY-FLOOR MATS - ALL WEATHER
VK3	Front License Plate Bracket- w/Front Mounting Pkg
VT7	Owners Manual - English, French Language
WBP	Appearance Package
WMF	Vin Model Year 2015
X88	Market Brand-Chevrolet
YA2	Door - Sliding RH and LH 2nd Row (no delete - manual only)
YF5	California Emission Certification
YM8	IDENTIFICATION-LIMITED PERSONALIZATION OPTION (LPO)
Z49	Canada
ZW2	Window Pkg, RR Doors
ZW3	WINDOW-PKG, PASSENGER SIDE ONLY
ZW6	WINDOW-PKG, RH & LH SIDE DOORS
ZW9	Body Equipment - Chassis Body
ZY1	Solid Color

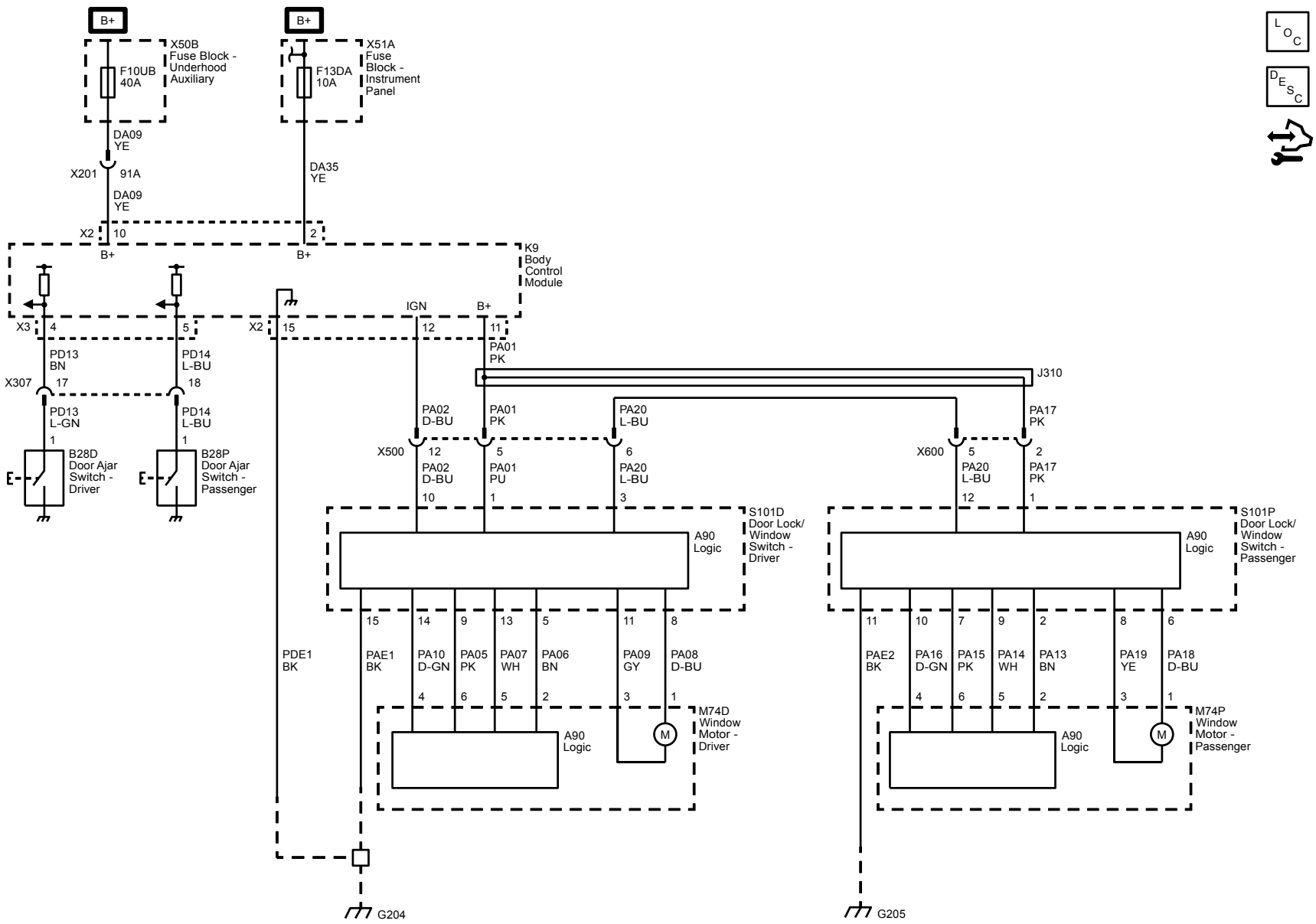
Body Systems

Fixed and Moveable Windows

Schematic and Routing Diagrams

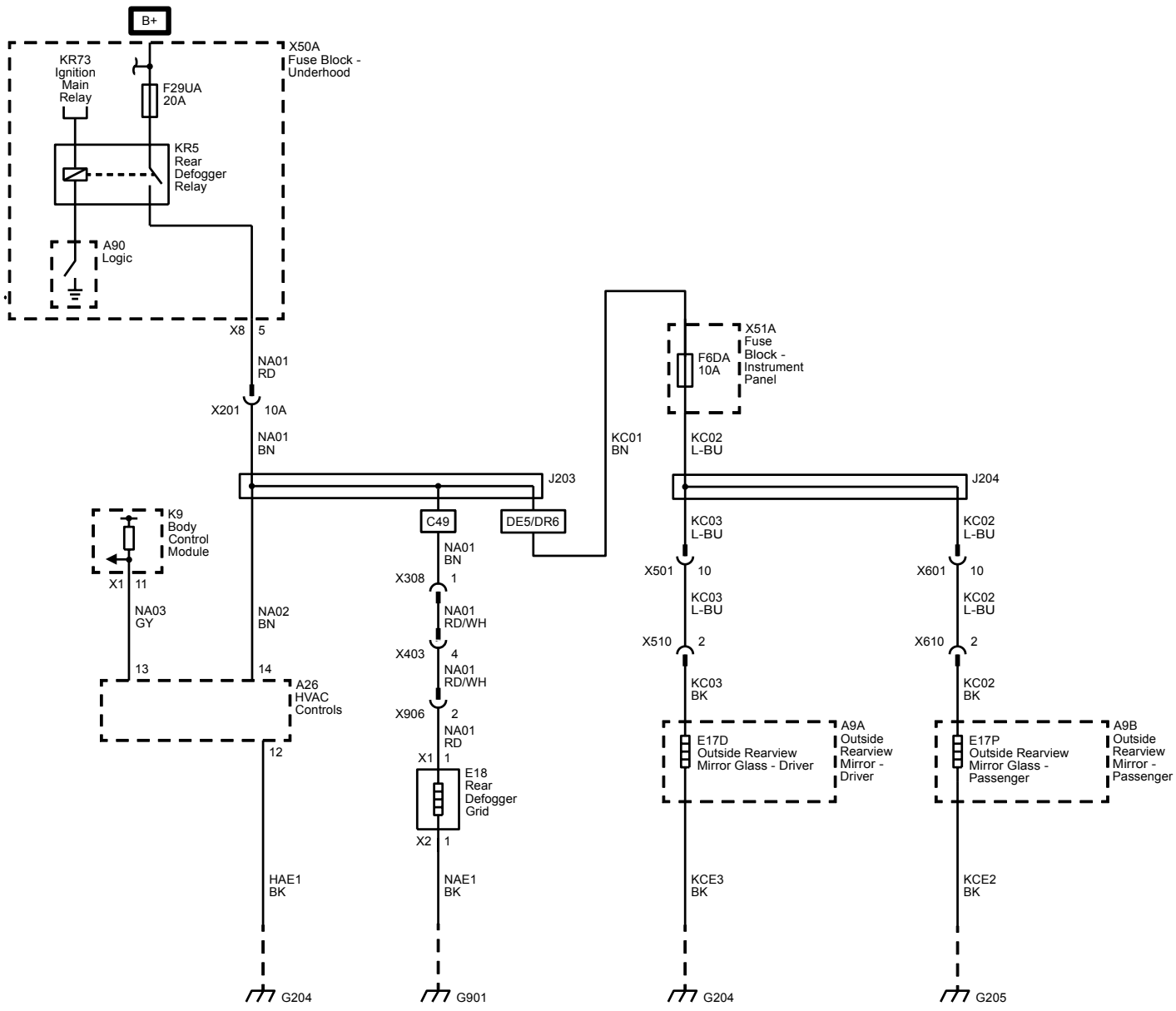
Moveable Window Schematics

Power Window



Defogger Schematics

Defogger



Description and Operation

Power Windows Description and Operation

Power Window System Components

The power window system consists of the following components:

- Driver window switch
- Front passenger window switch
- Window regulator motors in each of the doors

Power Window System Controls

The power window system can be controlled by a power window up or down switch activation.

Window Operation and the Driver Window Switch

The driver power window switch contains individual window switches for each of the power windows. All windows may be controlled up and down from the driver power window switch. The passenger power window switch (or rear window switches if equipped) will only control the up and down operation of their respective power window. The passenger power window contains a reversible power window motor. The direction the window travels is dependent upon the polarity of the control circuits. By reversing polarity of the control circuits the window motor will move up or down. The passenger power window motor is internally circuit breaker protected.

Driver Express Up and Express Down Power Window Motor

The driver power window is controlled by the driver door lock/window switch using inputs from the driver door lock/window switch. The window switch circuits are grounded in the driver door lock/window switch and when active a control circuit is switched to B+. The driver door lock/window switch also uses inputs from 2 Hall effect sensors located within the motor. The Hall effect sensors enable the driver door lock/window switch to monitor the window position and motor speed for use as an anti-pinch safety feature.

Passenger Express Up and Express Down Power Window Motor

The passenger power window is controlled by the passenger window switch. The window switch circuits are grounded in the passenger window switch and when active a control circuit is switched to B+. The passenger window switch also uses inputs from 2 Hall effect sensors located within the motor. The Hall effect sensors enable the passenger window switch to monitor the window position and motor speed for use as an anti-pinch safety feature.

Rear Window Defogger Description and Operation

Rear Window Defogger System Components

The rear window defogger system consist of the following components:

- HVAC controls switch assembly
- Body control module (BCM)
- Rear defogger relay
- Rear window grid
- Driver outside rearview mirror
- Passenger outside rearview mirror
- Underhood fuse block

Rear Window Defogger Operation

Battery positive voltage is supplied through the F29UA fuse, in the underhood fuse block, to the rear defogger relay switched input. Control and ground for the rear defogger relay is provided by underhood fuse block. The BCM supplies 12 volts to the rear window defogger switch signal circuit to the HVAC controls switch assembly. When you depress the rear window defogger switch, the rear window defogger switch pulls the signal circuit low. The BCM will detect the voltage drop in the signal circuit and will then send a serial data message to the underhood fuse block to energize the rear defogger relay. The contacts within the rear defogger relay will close providing B+ voltage to the rear defogger indicator, the rear defogger grid and if equipped, to the driver and passenger heated outside rearview mirrors.

When you start the engine and press the rear window defogger switch for the first time, the defogger cycle lasts for 15 minutes. Further operation results in 7.5 minute defogger cycles. The rear defogger feature will not time out if vehicle speed is above 80 km/h (50 mph). The defogger cycle resets to 15 minutes when you cycle the ignition to the OFF position and then to the ON position.

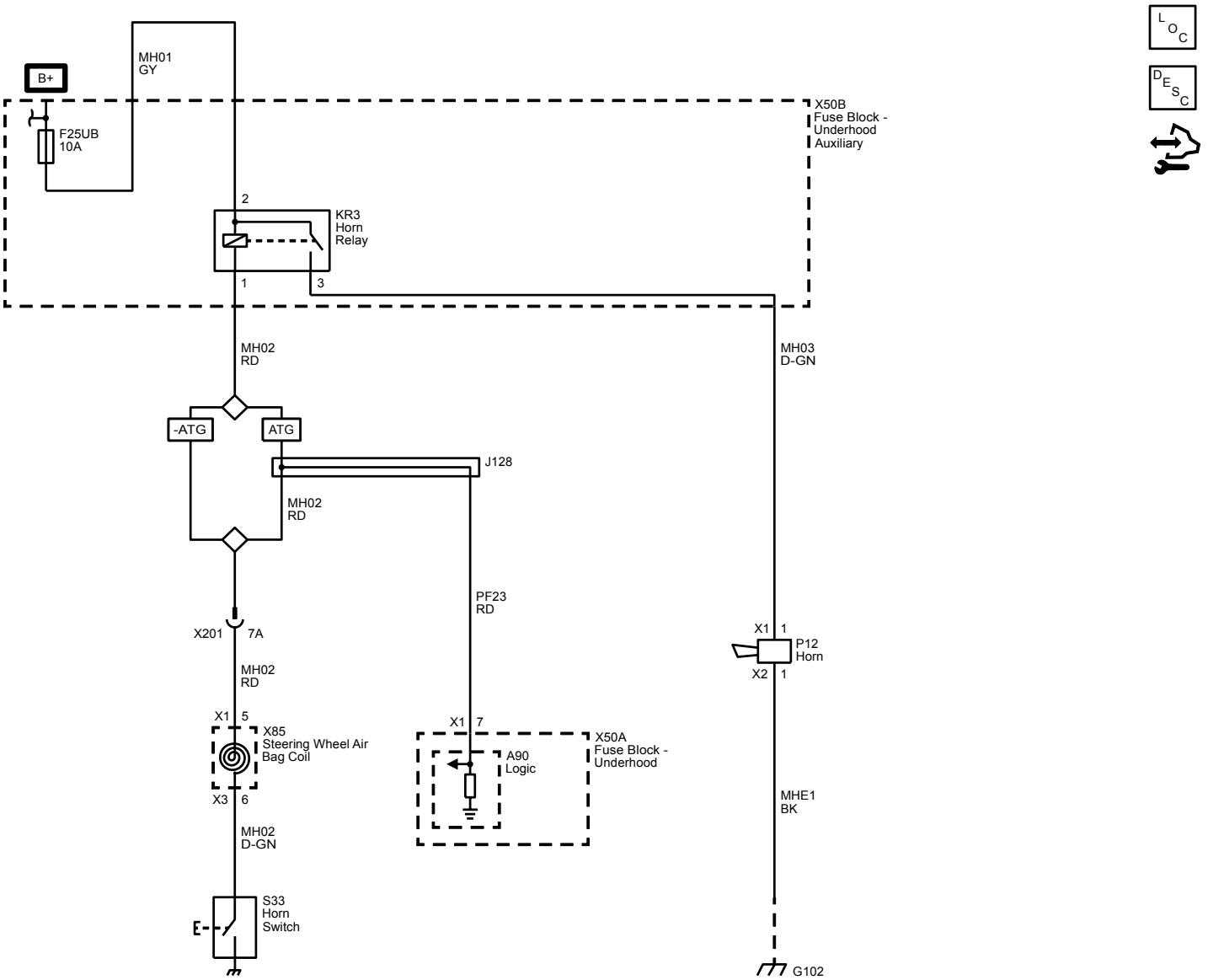
Body Systems

Horns

Schematic and Routing Diagrams

Horn Schematics

Horn



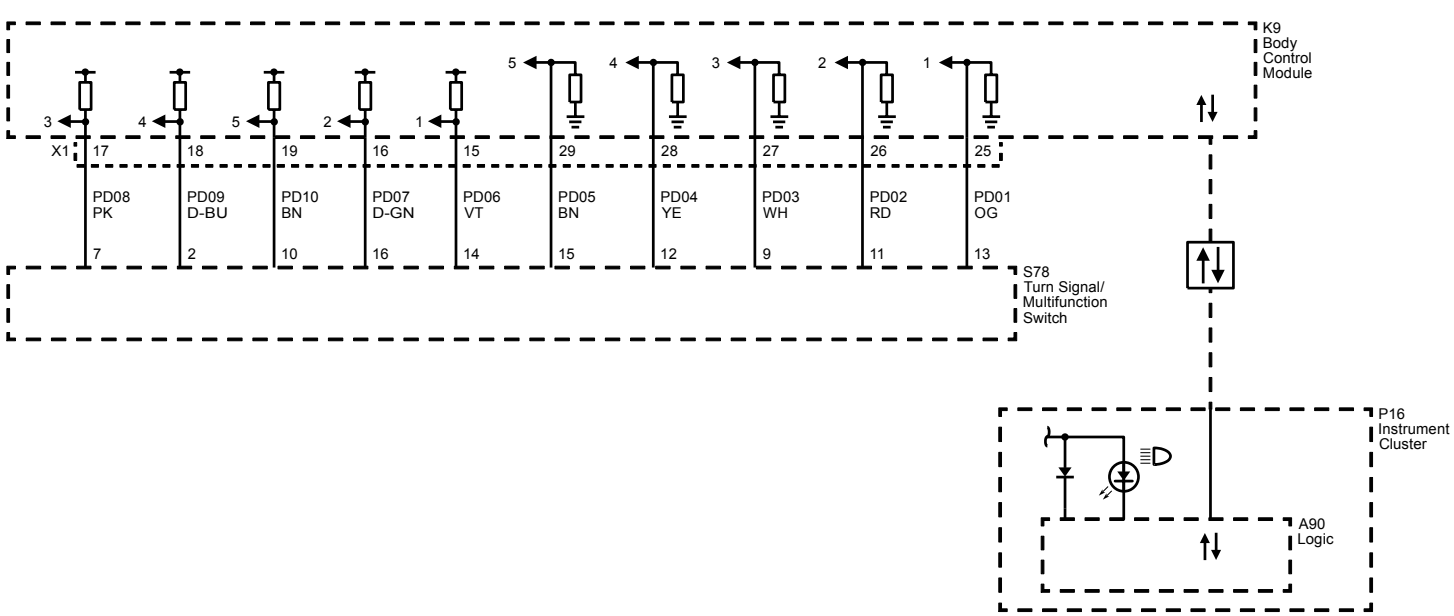
Body Systems

Lighting

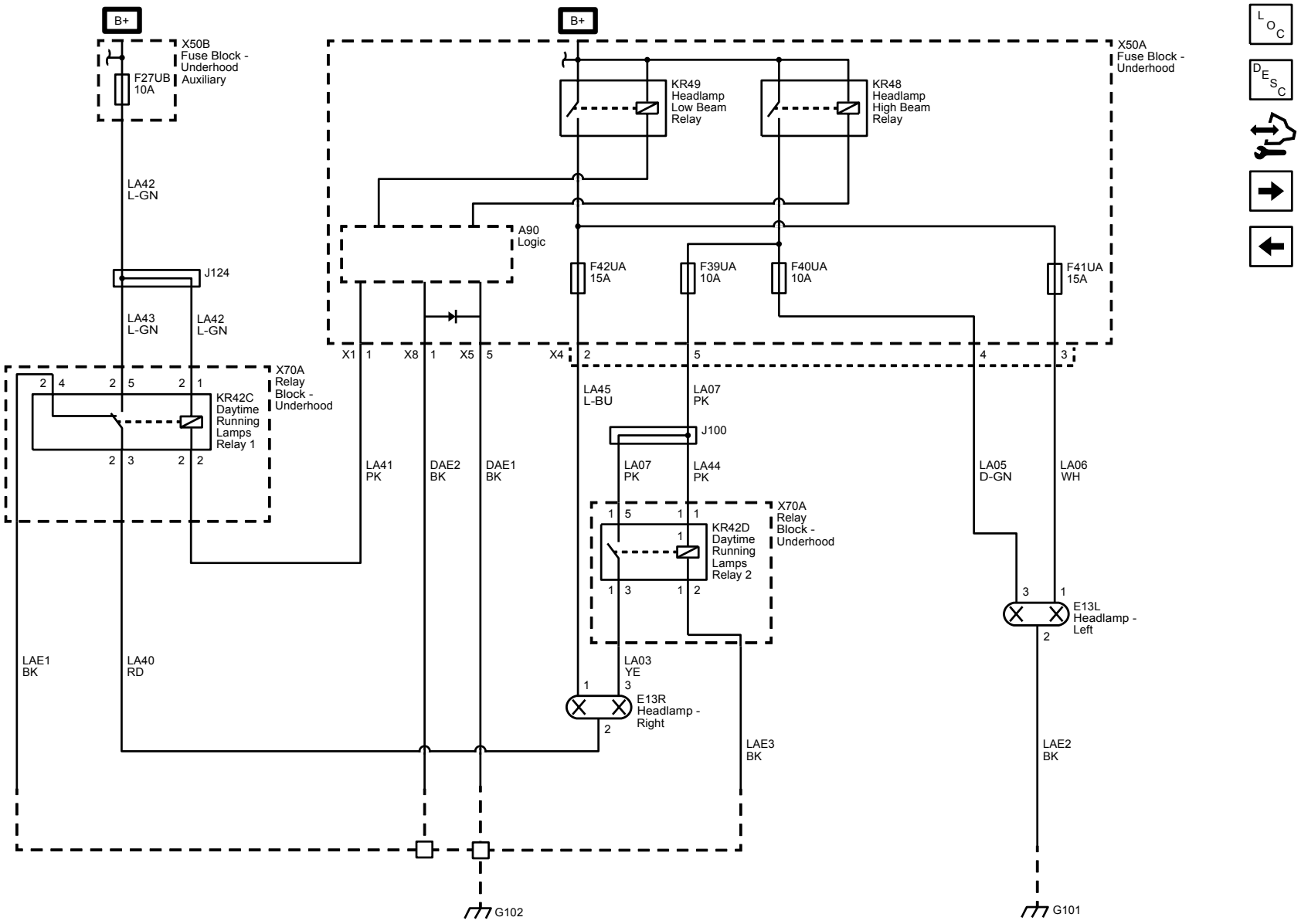
Schematic and Routing Diagrams

Headlights/Daytime Running Lights (DRL) Schematics

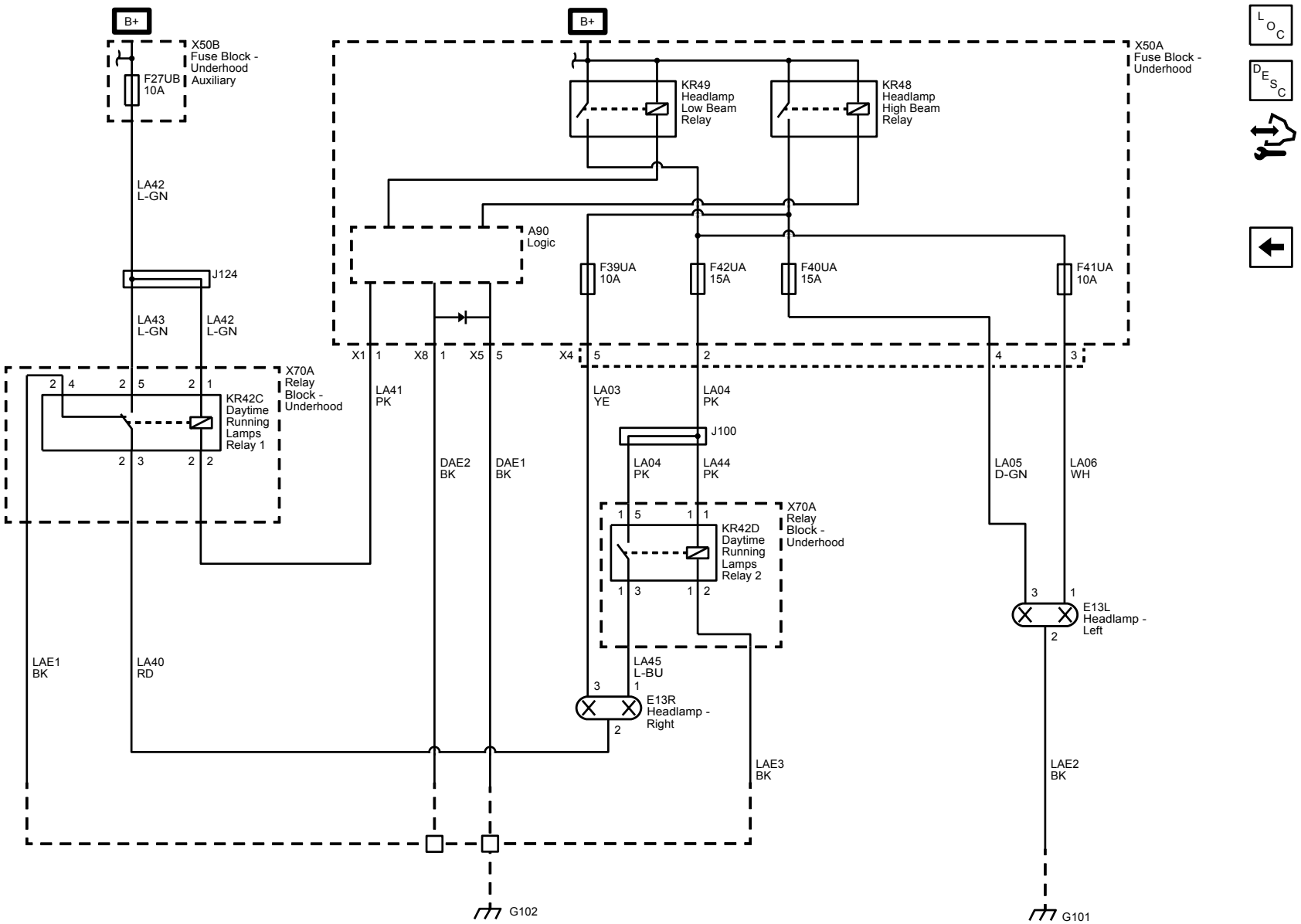
DRL Controls and Indicators



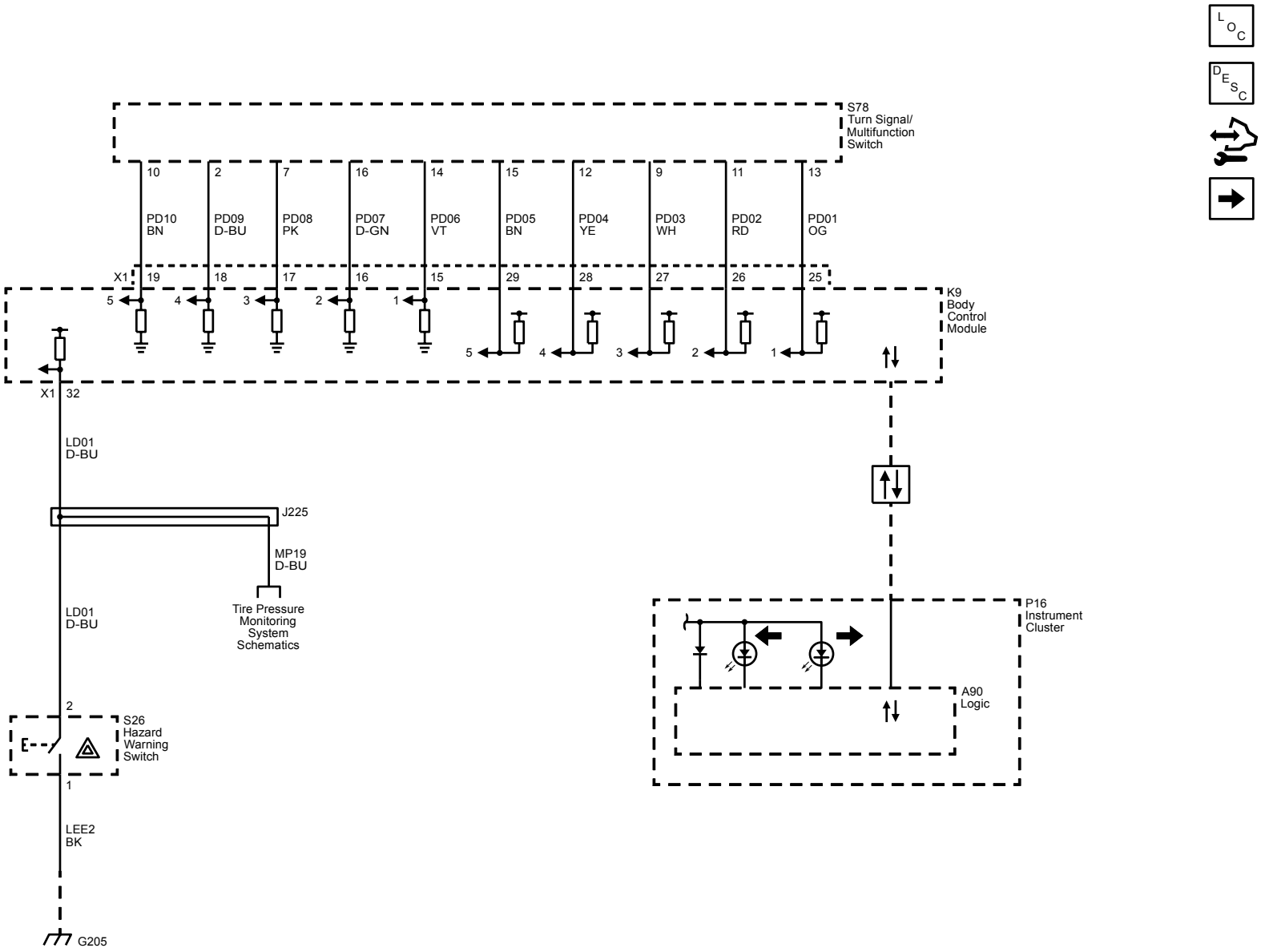
DRL - USA


B+
X50B
Fuse Block - Underhood Auxiliary
F27UB 10A
LA42 L-GN
J124
LA43 L-GN
LA42 L-GN
X70A Relay Block - Underhood
KR42C Daytime Running Lamps Relay 1
LA41 PK
DAE2 BK
DAE1 BK
LAE1 BK
LA40 RD
B+
X50A Fuse Block - Underhood
KR49 Headlamp Low Beam Relay
KR48 Headlamp High Beam Relay
A90 Logic
F42UA 15A
F39UA 10A
F40UA 10A
F41UA 15A
X1 1 X8 1 X5 5 X4 2 5 4 3
LA45 L-BU
LA07 PK
J100
LA07 PK
LA44 PK
X70A Relay Block - Underhood
KR42D Daytime Running Lamps Relay 2
LA03 YE
E13R Headlamp - Right
LAE3 BK
LA05 D-GN
LA06 WH
E13L Headlamp - Left
LAE2 BK
G102
G101

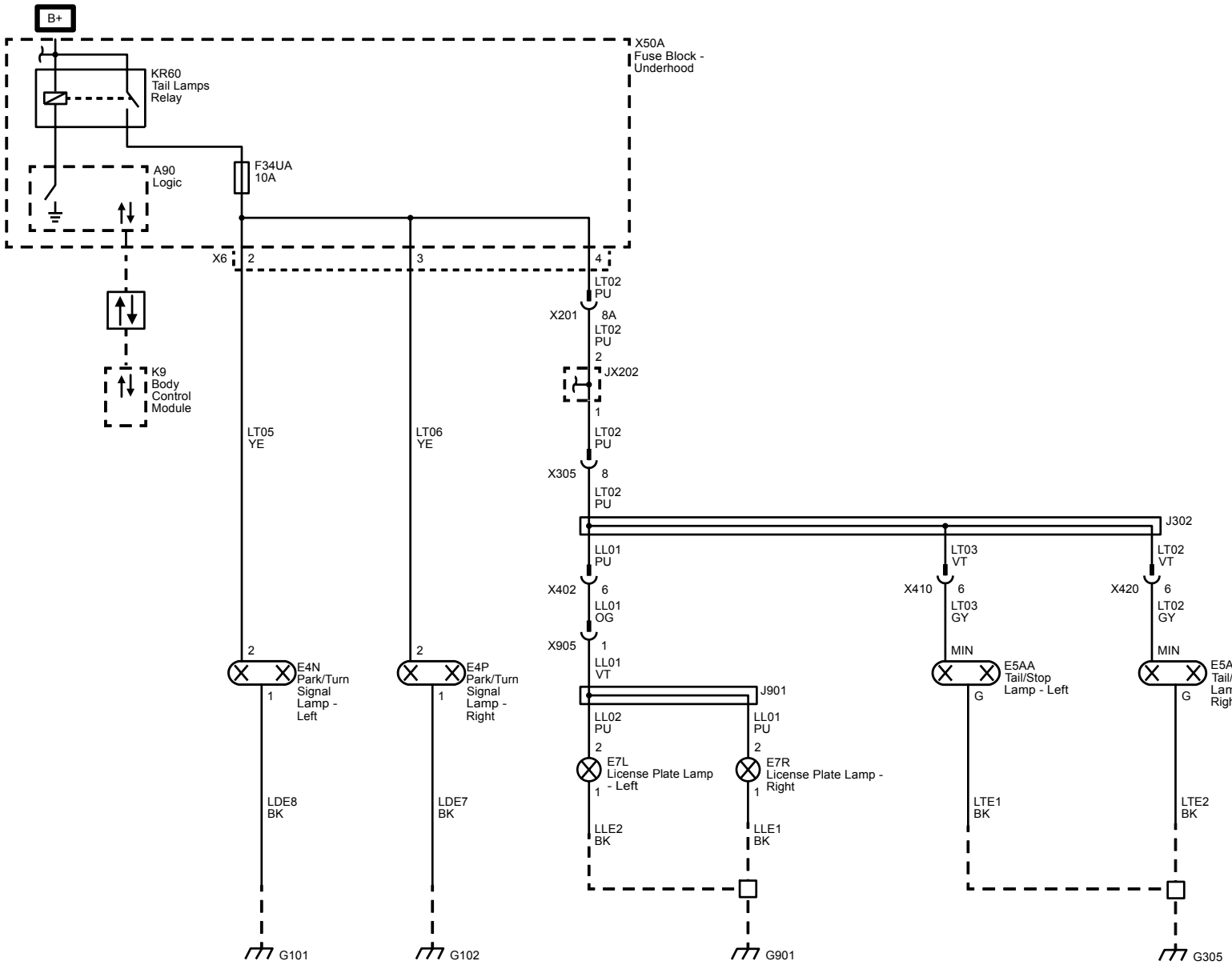
DRL - Canada

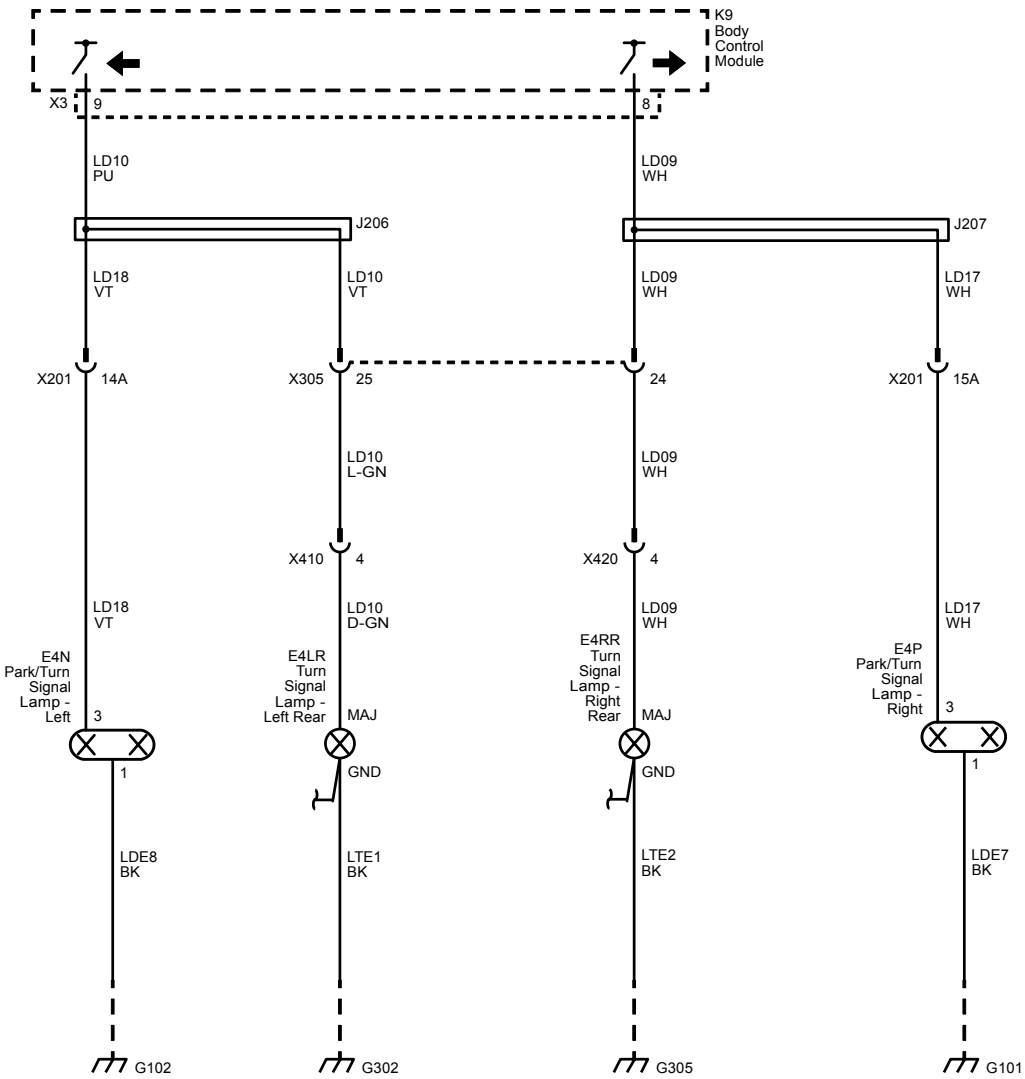

B+
X50B
Fuse Block -
Underhood
Auxiliary
F27UB
10A
LA42
L-GN
J124
LA43
L-GN
LA42
L-GN
X70A
Relay
Block -
Underhood
KR42C
Daytime
Running
Lamps
Relay 1
LAE1
BK
LA40
RD
B+
X50A
Fuse Block -
Underhood
KR49
Headlamp
Low Beam
Relay
KR48
Headlamp
High Beam
Relay
A90
Logic
F39UA
10A
F42UA
15A
F40UA
15A
F41UA
10A
X1
X8
X5
X4
LA41
PK
DAE2
BK
DAE1
BK
LA03
YE
LA04
PK
J100
LA04
PK
LA44
PK
X70A
Relay
Block -
Underhood
KR42D
Daytime
Running
Lamps
Relay 2
LA45
L-BU
E13R
Headlamp -
Right
LAE3
BK
G102
LA05
D-GN
LA06
WH
E13L
Headlamp -
Left
LAE2
BK
G101

Controls and Indicators

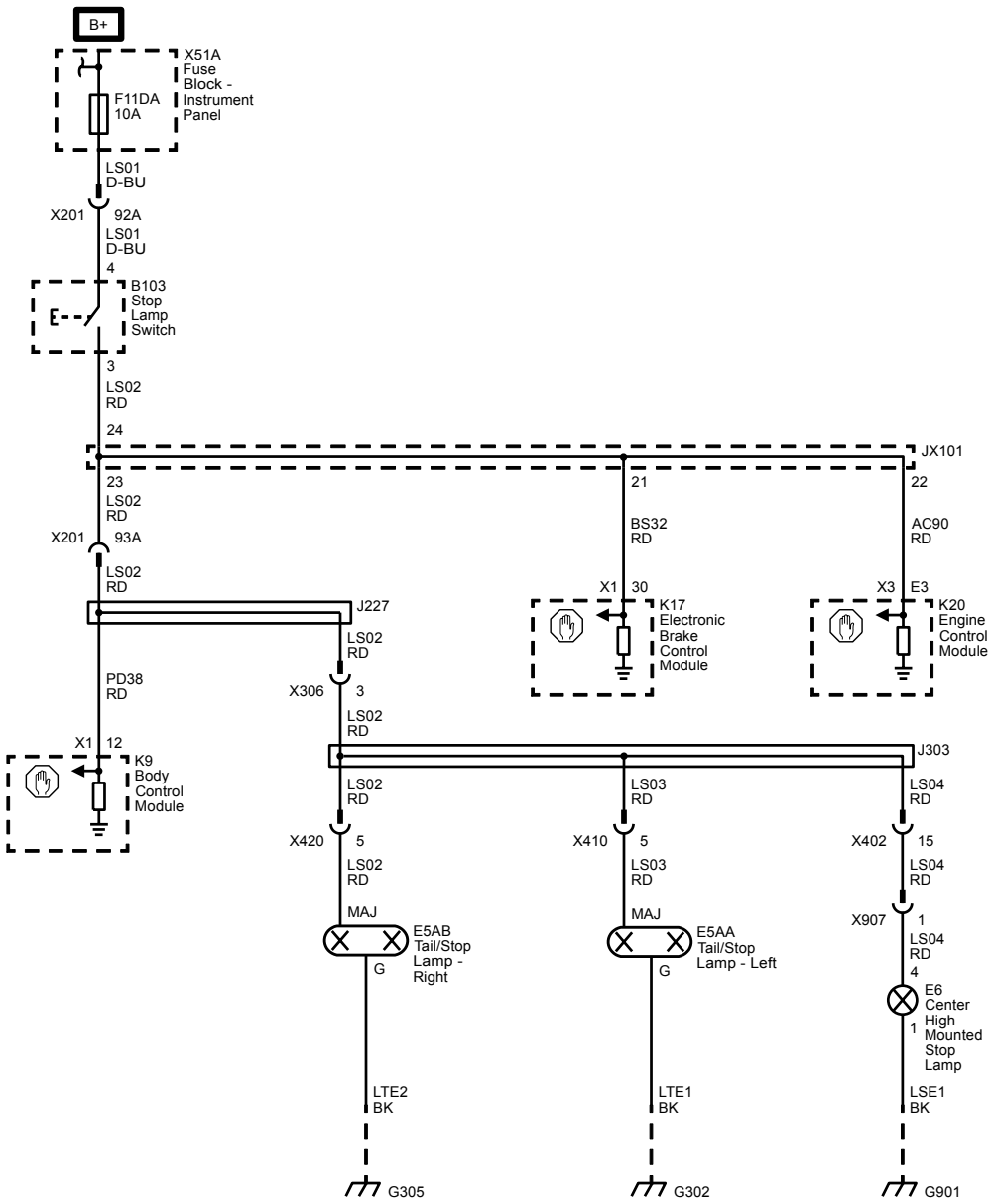


Park Lamps


B+
KR60
Tail Lamps
Relay
X50A
Fuse Block -
Underhood
A90
Logic
F34UA
10A
X6
2
3
4
K9
Body
Control
Module
LT05
YE
LT06
YE
LT02
PU
X201
8A
LT02
PU
2
JX202
1
LT02
PU
X305
8
LT02
PU
J302
LL01
PU
X402
6
LL01
OG
X905
1
LL01
VT
J901
LT03
VT
X410
6
LT03
GY
LT02
VT
X420
6
LT02
GY
2
E4N
Park/Turn
Signal
Lamp -
Left
1
2
E4P
Park/Turn
Signal
Lamp -
Right
1
MIN
E5AA
Tail/Stop
Lamp - Left
G
MIN
E5AB
Tail/Stop
Lamp -
Right
G
LL02
PU
2
E7L
License Plate Lamp
- Left
1
LL01
PU
2
E7R
License Plate Lamp -
Right
1
LDE8
BK
LDE7
BK
LLE2
BK
LLE1
BK
LTE1
BK
LTE2
BK
G101
G102
G901
G305


K9
Body
Control
Module
X3
9
8
LD10
PU
LD09
WH
J206
J207
LD18
VT
LD10
VT
LD09
WH
LD17
WH
X201
14A
X305
25
24
X201
15A
LD10
L-GN
LD09
WH
X410
4
X420
4
LD18
VT
LD10
D-GN
LD09
WH
LD17
WH
E4N
Park/Turn
Signal
Lamp -
Left
3
E4LR
Turn
Signal
Lamp -
Left Rear
MAJ
E4RR
Turn
Signal
Lamp -
Right
Rear
MAJ
E4P
Park/Turn
Signal
Lamp -
Right
3
1
GND
GND
1
LDE8
BK
LTE1
BK
LTE2
BK
LDE7
BK
G102
G302
G305
G101

Stop Lamps


B+
X51A
Fuse
Block -
Instrument
Panel
F11DA
10A
LS01
D-BU
X201
92A
LS01
D-BU
4
B103
Stop
Lamp
Switch
3
LS02
RD
24
JX101
23
LS02
RD
X201
93A
LS02
RD
21
BS32
RD
22
AC90
RD
X1
30
K17
Electronic
Brake
Control
Module
X3
E3
K20
Engine
Control
Module
J227
LS02
RD
X306
3
LS02
RD
PD38
RD
X1
12
K9
Body
Control
Module
J303
LS02
RD
LS03
RD
LS04
RD
X420
5
X410
5
X402
15
LS02
RD
LS03
RD
LS04
RD
MAJ
MAJ
X907
1
E5AB
Tail/Stop
Lamp -
Right
E5AA
Tail/Stop
Lamp - Left
G
G
LS04
RD
4
E6
Center
High
Mounted
Stop
Lamp
1
LTE2
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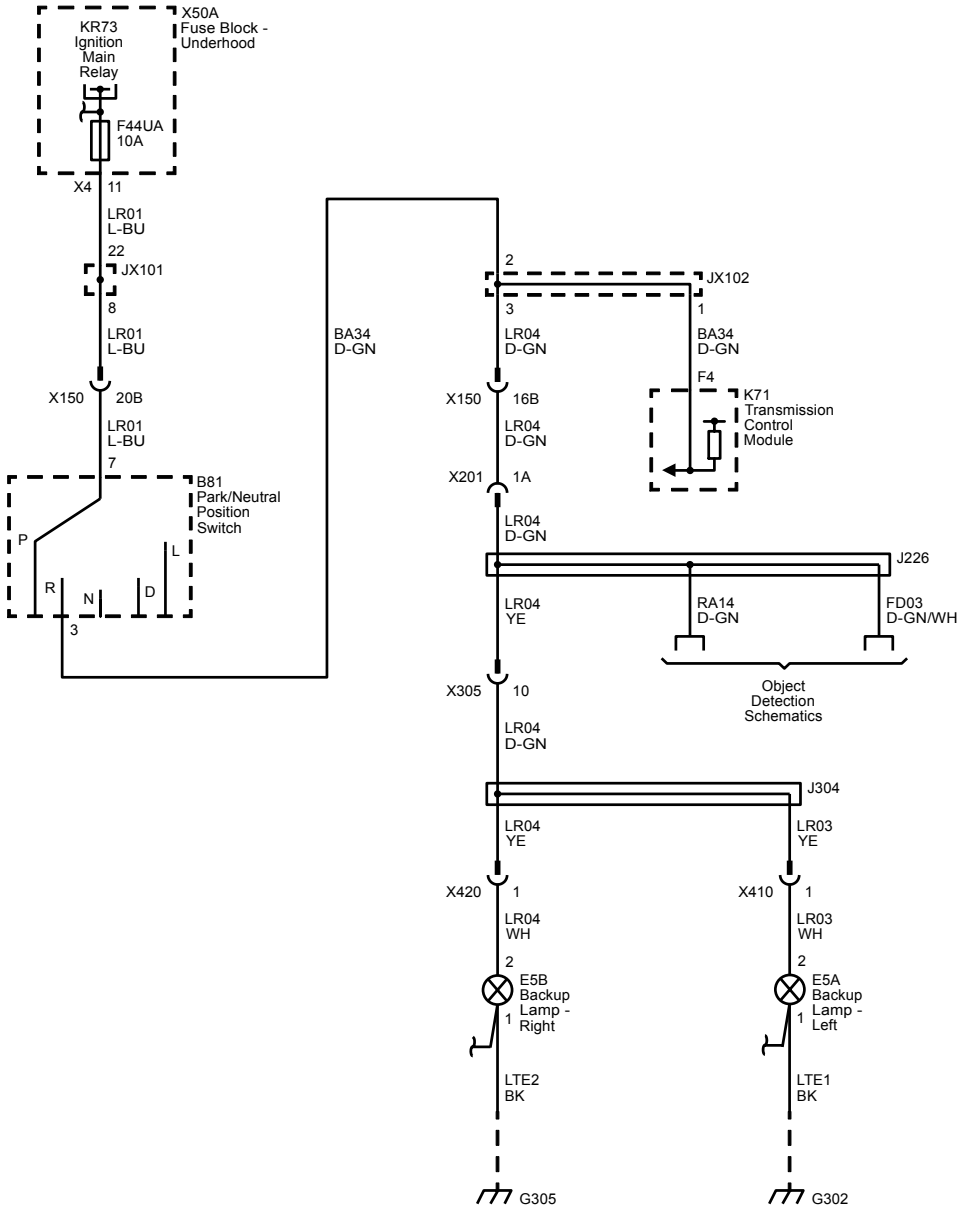
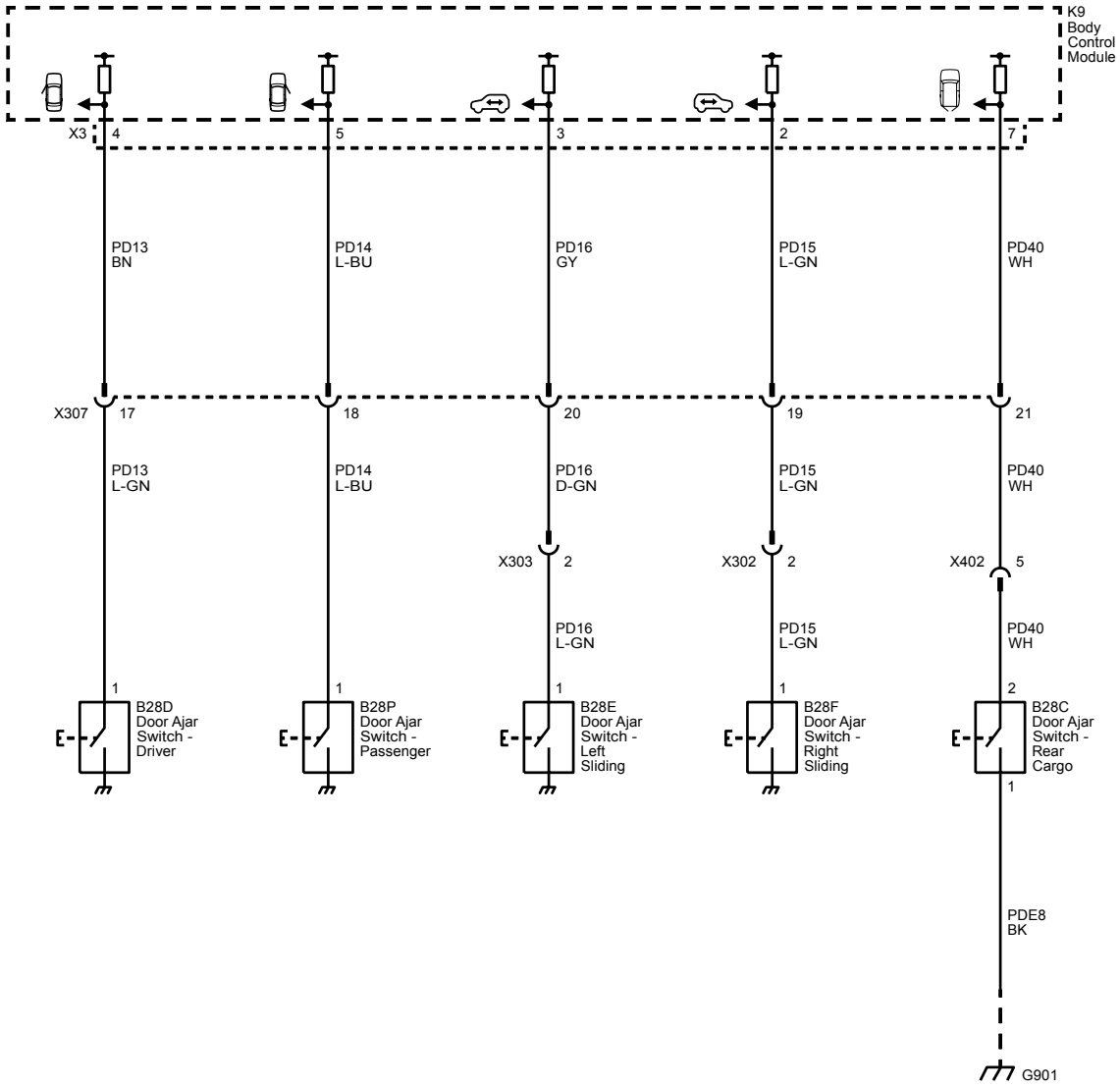
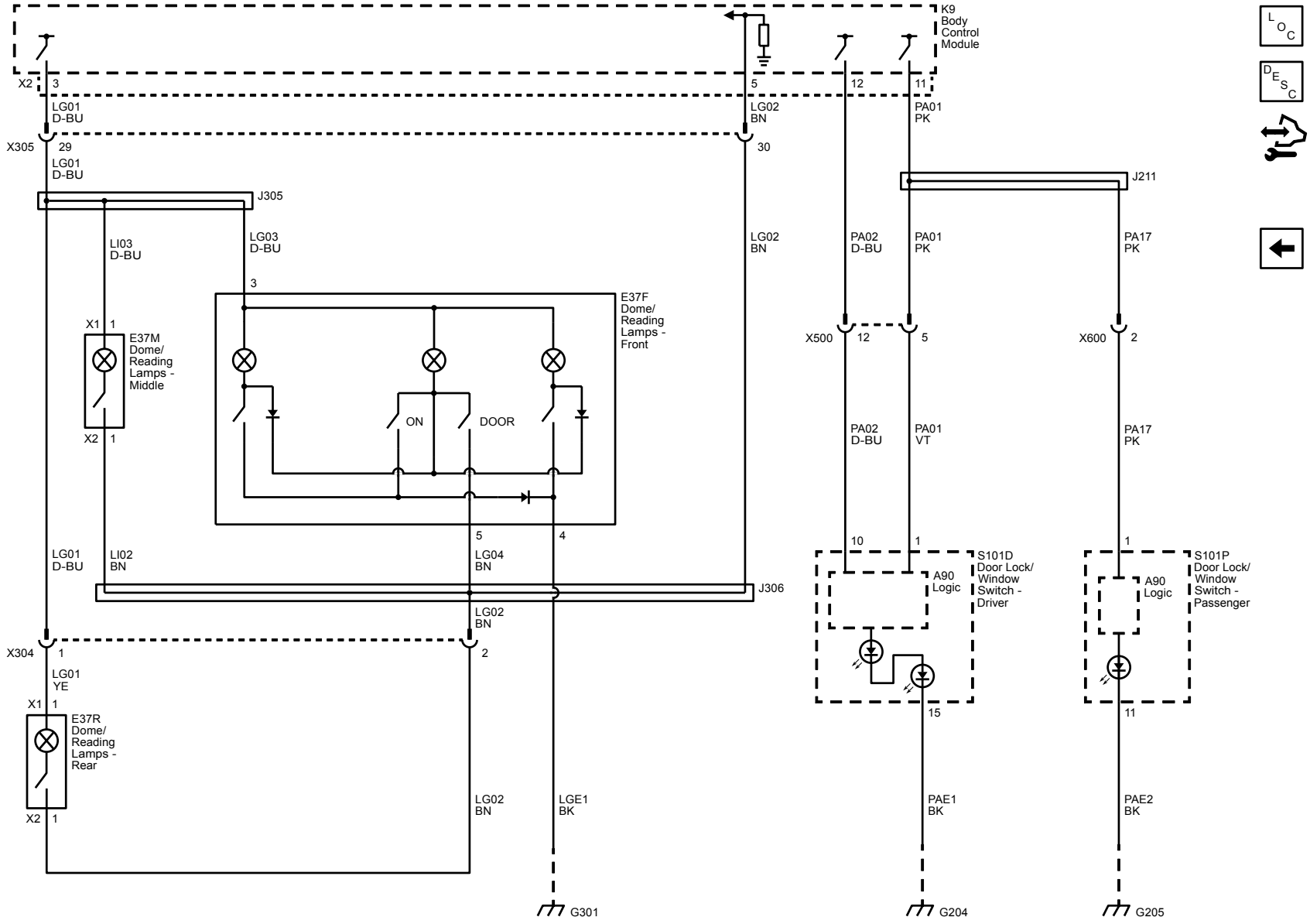
LTE1
BK
LSE1
BK
G305
G302
G901


KR73
Ignition
Main
Relay
X50A
Fuse Block -
Underhood
F44UA
10A
X4
11
LR01
L-BU
22
JX101
8
LR01
L-BU
X150
20B
LR01
L-BU
7
B81
Park/Neutral
Position
Switch
P
R
N
D
L
3
BA34
D-GN
2
JX102
3
1
LR04
D-GN
BA34
D-GN
X150
16B
F4
K71
Transmission
Control
Module
LR04
D-GN
X201
1A
LR04
D-GN
J226
LR04
YE
RA14
D-GN
FD03
D-GN/WH
Object
Detection
Schematics
X305
10
LR04
D-GN
J304
LR04
YE
LR03
YE
X420
1
X410
1
LR04
WH
LR03
WH
2
E5B
Backup
Lamp -
Right
1
E5A
Backup
Lamp -
Left
LTE2
BK
LTE1
BK
G305
G302

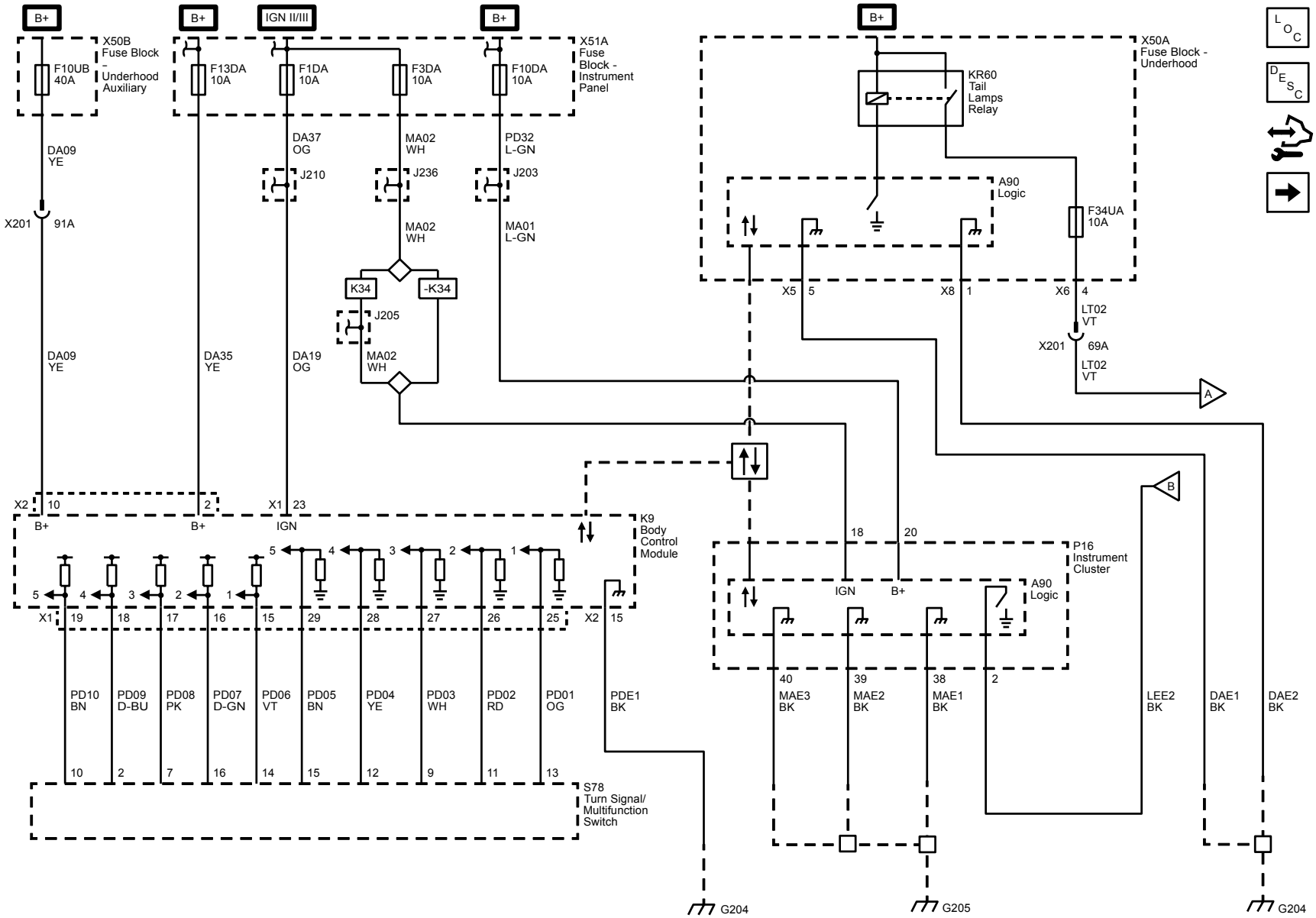
Door Switch Controls

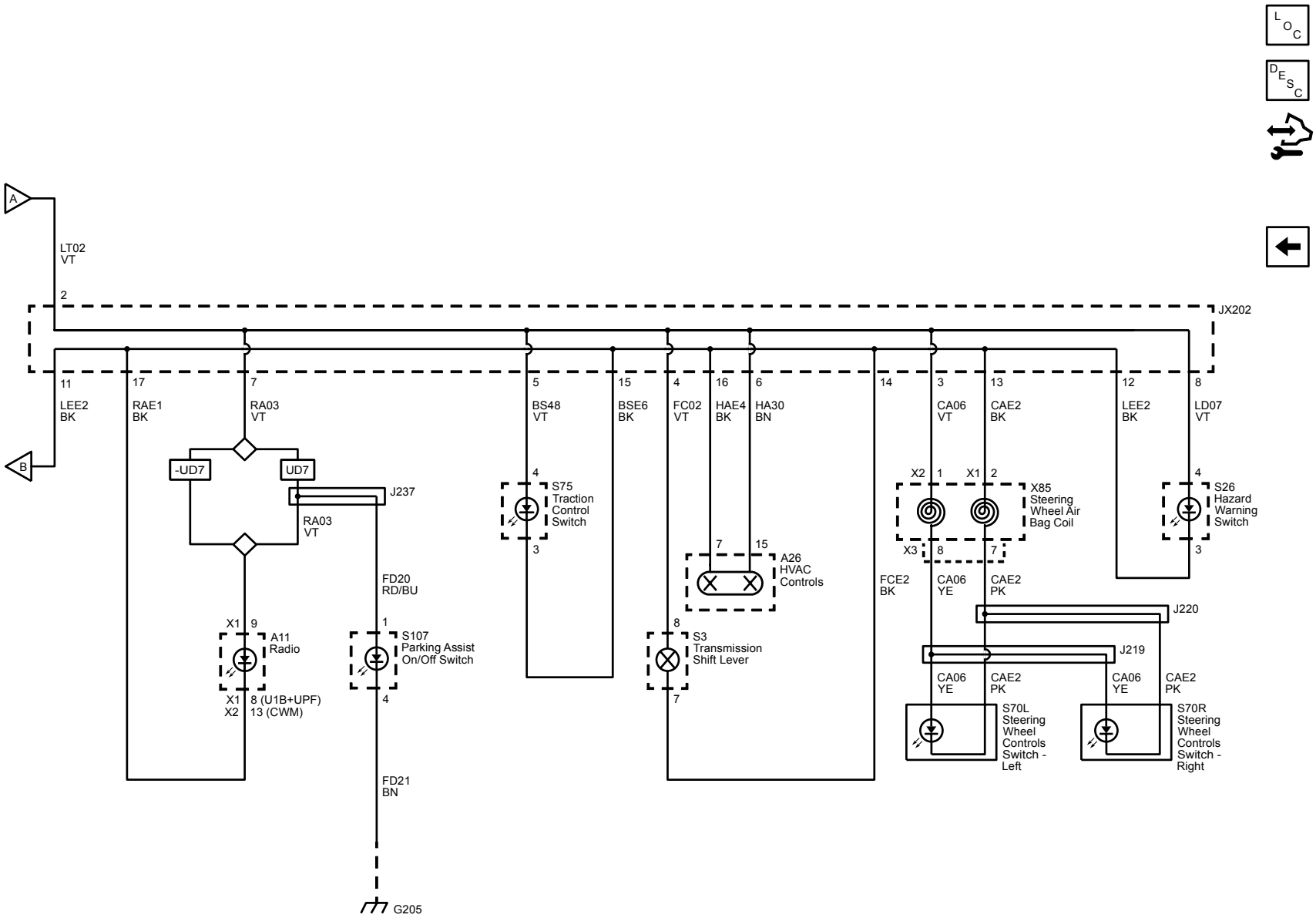



K9
Body
Control
Module
X2
3
5
12
11
LG01
D-BU
LG02
BN
PA01
PK
X305
29
30
LG01
D-BU
J305
J211
LI03
D-BU
LG03
D-BU
LG02
BN
PA02
D-BU
PA01
PK
PA17
PK
3
E37F
Dome/
Reading
Lamps -
Front
X1
1
E37M
Dome/
Reading
Lamps -
Middle
X2
1
ON
DOOR
X500
12
5
X600
2
PA02
D-BU
PA01
VT
PA17
PK
5
4
10
1
1
LG01
D-BU
LI02
BN
LG04
BN
J306
S101D
Door Lock/
Window
Switch -
Driver
A90
Logic
S101P
Door Lock/
Window
Switch -
Passenger
A90
Logic
LG02
BN
X304
1
2
15
11
LG01
YE
X1
1
E37R
Dome/
Reading
Lamps -
Rear
X2
1
LG02
BN
LGE1
BK
PAE1
BK
PAE2
BK
G301
G204
G205

Interior Lights Dimming Schematics

Illumination Controls

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BSE6
BK
4
FC02
VT
16
HAE4
BK
6
HA30
BN
14
FCE2
BK
3
CA06
VT
13
CAE2
BK
12
LEE2
BK
8
LD07
VT
B
-UD7
UD7
J237
RA03
VT
FD20
RD/BU
FD21
BN
G205
X1 9
A11
Radio
X1
X2
8 (U1B+UPF)
13 (CWM)
1
S107
Parking Assist
On/Off Switch
4
4
S75
Traction
Control
Switch
3
7
15
A26
HVAC
Controls
8
S3
Transmission
Shift Lever
7
X2 1 X1 2
X85
Steering
Wheel Air
Bag Coil
X3 8 7
4
S26
Hazard
Warning
Switch
3
J220
J219
CA06
YE
CAE2
PK
CA06
YE
CAE2
PK
S70L
Steering
Wheel
Controls
Switch -
Left
CA06
YE
CAE2
PK
S70R
Steering
Wheel
Controls
Switch -
Right

Description and Operation

Exterior Lighting Systems Description and Operation

The exterior lighting system consist of the following lamps:

- Backup lamps
- Daytime running lamps
- Hazard warning lamps
- Headlamps
- Park, tail, and license lamps
- Stop lamps
- Turn signal lamps

Low Beam Headlamps – USA

For headlamp operation, the body control module (BCM) monitors two signal circuits from the turn signal/multifunction switch. When the turn signal/multifunction switch is placed in the OFF position, the turn signal/multifunction switch headlamps OFF signal circuit is grounded, indicating to the BCM that the exterior lamps should be turned OFF. With the turn signal/multifunction switch in the PARK LAMPS position, the turn signal/multifunction switch park lamps ON signal circuit is grounded, indicating that the park lamps have been requested. When the turn signal/multifunction switch is in the HEADLAMP position, both the turn signal/multifunction switch park lamps ON signal circuit and the turn signal/multifunction switch headlamps ON signal circuit are grounded. The BCM responds to the low beam request by sending a serial data message to the underhood fuse block internal logic module requesting the low beams be applied. The underhood fuse block logic module responds by applying ground to the low beam relay control circuit which energizes the low beam relay. With the low beam relay energized, the switch contacts close allowing battery voltage to flow through the low beam fuses. The right low beam control circuit supplies voltage to the daytime running lamps relay 2 coil energizing the relay coil. With the relay coil energized, the relay switch contacts close allowing voltage to flow through to the right low beam headlamp. With the left and right low beam headlamps supplied with voltage, the low beam headlamps illuminate.

Low Beam Headlamps – Canada

For headlamp operation, the body control module (BCM) monitors two signal circuits from the turn signal/multifunction switch. When the turn signal/multifunction switch is placed in the OFF position, the turn signal/multifunction switch headlamps OFF signal circuit is grounded, indicating to the BCM that the exterior lamps should be turned OFF. With the turn signal/multifunction switch in the PARK LAMPS position, the turn signal/multifunction switch park lamps ON signal circuit is grounded, indicating that the park lamps have been requested. When the turn signal/multifunction switch is in the HEADLAMP position, both the turn signal/multifunction switch park lamps ON signal circuit and the turn signal/multifunction switch headlamps ON signal circuit are grounded. The BCM responds to the low beam request by sending a serial data message to the underhood fuse block internal logic module requesting the low beams be applied. The underhood fuse block logic module responds by applying ground to the low beam relay control circuit which energizes the low beam relay. With the low beam relay energized, the switch contacts close allowing battery voltage to flow through the low beam fuses. Battery voltage is then applied from the fuses, through the low beam control circuits illuminating the low beam headlamps.

High Beam Headlamps – USA

The high beam and flash to pass functions are contained within the turn signal/multifunction switch. The BCM provides the turn signal/multifunction switch with two signal circuits, the high beam signal circuit and the flash to pass signal circuit. When the low beam headlamps are ON and the turn signal/multifunction switch is placed in the high beam position, ground is applied to the BCM through the high beam signal circuit. The BCM responds to the high beam request by sending a serial data message to the underhood fuse block internal logic module requesting the high beams be applied. The underhood fuse block logic module responds to the high beam request by applying ground to the high beam relay control circuit which energizes the high beam relay. With the high beam relay energized, the switch contacts close allowing battery voltage to flow through the high beam fuses to the high beam control circuits illuminating the high beam headlamps.

High Beam Headlamps – Canada

The high beam and flash to pass functions are contained within the turn signal/multifunction switch. The BCM provides the turn signal/multifunction switch with two signal circuits, the high beam signal circuit and the flash to pass signal circuit. When the low beam headlamps are ON and the turn signal/multifunction switch is placed in the high beam position, ground is applied to the BCM through the high beam signal circuit. The BCM responds to the high beam request by sending a serial data message to the underhood fuse block internal logic module requesting the high beams be applied. The underhood fuse block logic module responds to the high beam request by applying ground to the high beam relay control circuit which energizes the high beam relay. With the high beam relay energized, the switch contacts close allowing battery voltage to flow through the high beam fuses to the high beam control circuits. The right high beam control circuit supplies voltage to the daytime running lamps relay 2 coil energizing the relay coil. With the relay coil energized, the relay switch contacts close allowing voltage to flow through to the right high beam headlamp. With the left and right high beam headlamps supplied with voltage, the high beam headlamps illuminate.

Daytime Running Lamps – USA

When the turn signal/multifunction switch is placed in the OFF position, the turn signal/multifunction switch headlamps OFF signal circuit is grounded, indicating to the body control module (BCM) that the exterior lamps should be turned OFF. The BCM responds to the exterior lamps OFF request by sending a serial data message to the underhood fuse block internal logic module requesting all exterior lamps be turned OFF. The underhood fuse block logic module responds by turning OFF all exterior lamps and at the same time applying ground to the daytime running lamps relay 1 control circuit energizing the relay. With the daytime running lamps relay 1 energized, the switch contacts close allowing battery voltage to back feed through the right high beam ground circuit to the right high beam headlamp. The voltage continues through the right high beam to the left and right high beam fuses which supply the left high beam. The left high beam provides the ground path that completes the circuit which causes the left and right high beam headlamps to illuminate for daytime running lamp operation.

When the turn signal/multifunction switch is placed in the PARK or HEAD positions, the underhood fuse block logic module removes ground from the daytime running lamps relay 1 control circuit which de-energizes the relay. With the daytime running lamps relay 1 de-energized, the switch contacts open. With the switch contacts in the open position the circuit becomes the ground path for the right headlamp for normal low/high beam operation.

Daytime Running Lamps – Canada

When the turn signal/multifunction switch is placed in the OFF position, the turn signal/multifunction switch headlamps OFF signal circuit is grounded, indicating to the body control module (BCM) that the exterior lamps should be turned OFF. The BCM responds to the exterior lamps OFF request by sending a serial data message to the underhood fuse block internal logic module requesting all exterior lamps be turned OFF. The underhood fuse block logic module responds by turning OFF all exterior lamps and at the same time applying ground to the daytime running lamps relay 1 control circuit energizing the relay. With the daytime running lamps relay 1 energized, the switch contacts close allowing battery voltage to back feed through the right low beam ground circuit to the right low beam headlamp. The voltage continues through the right low beam to the left and right low beam fuses which supply the left low beam. The left low beam provides the ground path that completes the circuit which causes the left and right low beam headlamps to illuminate for daytime running lamp operation.

When the turn signal/multifunction switch is placed in the PARK or HEAD positions, the underhood fuse block logic module removes ground from the daytime running lamps relay 1 control circuit which de-energizes the relay. With the daytime running lamps relay 1 de-energized, the switch contacts open. With the switch contacts in the open position the circuit becomes the ground path for the right headlamp for normal low/high beam operation.

Flash to Pass

When the turn signal/multifunction switch is momentarily placed in the flash to pass position, ground is applied to the BCM through the flash to pass signal circuit. The BCM responds to the flash request by sending a serial data

message to the underhood fuse block internal logic module requesting the high beams be applied. The underhood fuse block logic module responds to the flash to pass request by applying ground to the high beam relay control circuit which energizes the high beam relay illuminating the high beams for a brief moment or until the flash to pass switch is released.

Hazard Lamps

The hazard flashers may be activated in any power mode. The hazard warning switch signal circuit is momentarily grounded when the hazard warning switch is pressed. The body control module (BCM) responds to the hazard warning switch signal input by sending a serial data message to the internal logic module of the underhood fuse block. The internal logic at the underhood fuse block responds by supplying battery voltage to all four turn signal lamps in an ON and OFF duty cycle. When the hazard warning switch is activated, the BCM sends a serial data message to the instrument cluster requesting both turn signal indicators to be cycled ON and OFF.

Park, Tail, and License Lamps

With the park lamps ON, the Body Control Module (BCM) sends a serial data message to the underhood fuse block internal logic module requesting the park lamps be commanded on. The underhood fuse block internal logic module responds to the request by applying ground to the tail lamps relay coil energizing the coil. With the tail lamps relay coil energized, the relay switch contacts close allowing battery voltage to flow through the relay switch contacts to the F34 UA fuse on to the front and rear parks lamps as well as the interior components that have backlighting.

Stop Lamps

The stop lamp switch is used to sense the action of the driver application of the brake pedal. Battery voltage is supplied to the stop lamp switch at all times through the F11 DA fuse located in the instrument panel fuse block. When the brakes are applied, the stop lamp switch contacts close allowing battery voltage to flow through the left and right stop lamp control circuits as well as the center high mounted stop lamp control circuit illuminating the left and right stop lamps and the center high mounted stop lamp. Once the driver releases the brake pedal, the stop lamp switch contacts open and battery voltage is removed from the stop lamps control circuit.

Turn Signal Lamps

Ground is applied at all times to the turn signal/multifunction switch. The turn signal lamps may only be activated with the ignition switch in the ON or START positions. When the turn signal/multifunction switch is placed in either the TURN RIGHT or TURN LEFT position, ground is applied to the body control module (BCM) through either the right turn or left turn signal switch signal circuit. The BCM responds to the turn signal switch input by applying a pulsating voltage to the front and rear turn signal lamps through there respective control circuits. When a turn signal request is received by the BCM, a serial data message is sent to the instrument panel requesting the respective turn signal indicator be pulsed ON and OFF.

Backup Lamps

With the ignition ON, battery voltage is supplied to the backup lamp switch through the F44 UA fuse located in the underhood fuse block. With the ignition ON and the transmission in the reverse position, the backup lamp switch contacts close allowing battery voltage to flow through the backup lamps control circuit illuminating the backup lamps. Once the driver moves the gear selector out of the reverse position, the backup lamp switch contacts open and battery voltage is removed from the backup lamps control circuit. The engine must be running for the backup lamps to operate.

Battery Run Down Protection/Inadvertent Power

To provide battery run down protection, the exterior lamps will be deactivated automatically under certain conditions. The BCM monitors the state of the turn signal/multifunction switch. If the park or headlamp switch is ON when the ignition switch is placed in either the CRANK or RUN position and then placed in the OFF position, the BCM initiates a 5 minute timer. At the end of the 5 minutes, the BCM will turn off the control power output to the park lamp controls as well as the headlamp relay coils, deactivating the exterior lamps. This feature will be cancelled if any power mode other than OFF becomes active or the turn signal/multifunction switch status changes.

Interior Lighting Systems Description and Operation

Interior Courtesy Lamps

The interior courtesy lighting system consist of following components:

- Dome lamps
- Reading lamps
- Rear compartment courtesy lamp

Dome Lamps

The dome lamp switch has 3 positions: DOOR, OFF, and ON. The ON position provides a ground for continuous operation and the dome lamps will remain illuminated until the switch is placed in either the DOOR or OFF position. When in the DOOR position, the dome lamps operation is controlled by the body control module (BCM). When any door is opened, the door ajar switch contacts close and the BCM receives a door-open input. The BCM illuminates the dome lamps when any door is opened or a door lock/unlock request is activated with the key fob. After all doors have been closed, the dome lamps will remain illuminated approximately 3 seconds after the last door closes. When the driver places the dome lamp switch in the OFF position, the dome lamps will be disabled. In the event that the dome lamps were to remain illuminated for more than 10 minutes with the vehicle ON/OFF switch in the OFF position, the BCM will deactivate the dome lamps control circuit to prevent total battery discharge.

Reading Lamps

The body control module (BCM) supplies battery voltage to the front reading lamp via the courtesy lamp control circuit. The front reading lamps are controlled by individual switches that are activated by the operator when additional cabin lighting is required. In the event that any of these courtesy lamps were to remain illuminated for more than 10 minutes with the ignition switch in the OFF position, the BCM will deactivate the courtesy lamp control circuit to prevent total battery discharge.

Rear Compartment Courtesy Lamp

When the rear compartment is opened, the rear compartment lid latch opens providing a rear compartment open input signal to the BCM. The BCM responds by applying battery voltage to the rear compartment courtesy lamp control circuit illuminating the rear compartment courtesy lamp.

Keyless Entry Interior Illumination

When the operator uses the keyless entry transmitter in order to unlock the doors, the BCM receives a door-unlock signal. The BCM must receive inputs from various systems that indicate that the ignition switch is OFF, the courtesy lamp switch is OFF, and all doors are closed before the BCM will activate the interior lamps. After all doors have been closed, the courtesy lamps will turn OFF immediately if the ignition switch is turned to the ON position, the door locks are LOCKED, or approximately 20 seconds after the last door closes. The BCM will turn off the courtesy lamps through the theater dimming feature.

Interior Component Backlighting

The interior component backlighting system consist of following components:

- Hazard switch
- HVAC control switch assembly
- Instrument cluster
- Radio
- Steering wheel control switch – left
- Steering wheel control switch – right
- Traction control switch
- Transmission shift lever

With the park lamps ON, the Body Control Module (BCM) sends a serial data message to the underhood fuse block internal logic module requesting the park lamps be commanded on. The underhood fuse block internal logic module responds to the request by applying ground to the tail lamps relay coil energizing the coil. With the tail lamps relay coil energized, the relay switch contacts close allowing battery voltage to flow through the relay switch contacts to the F34 UA fuse on to the front and rear parks lamps as well as the interior components that have backlighting. The instrument cluster receives the park lamps request via serial data from the underhood fuse block internal logic module and responds by applying ground to the interior backlighting control circuit. With ground applied to the interior backlighting control circuit all components with backlighting on the circuit illuminate.

Battery Rundown Protection/Inadvertent Power

To provide battery run down protection, the interior lamps will be deactivated automatically under certain conditions. In the event that any of these lamps were to remain illuminated for a period of more than 10 minutes with the ignition switch in the OFF position, the BCM will deactivate the inadvertent power supply voltage circuit to prevent total battery discharge. If the ignition switch is turned to any position other than OFF, or if a lamp switch is activated during this 10 minute period, the timer resets for another 10 minutes.

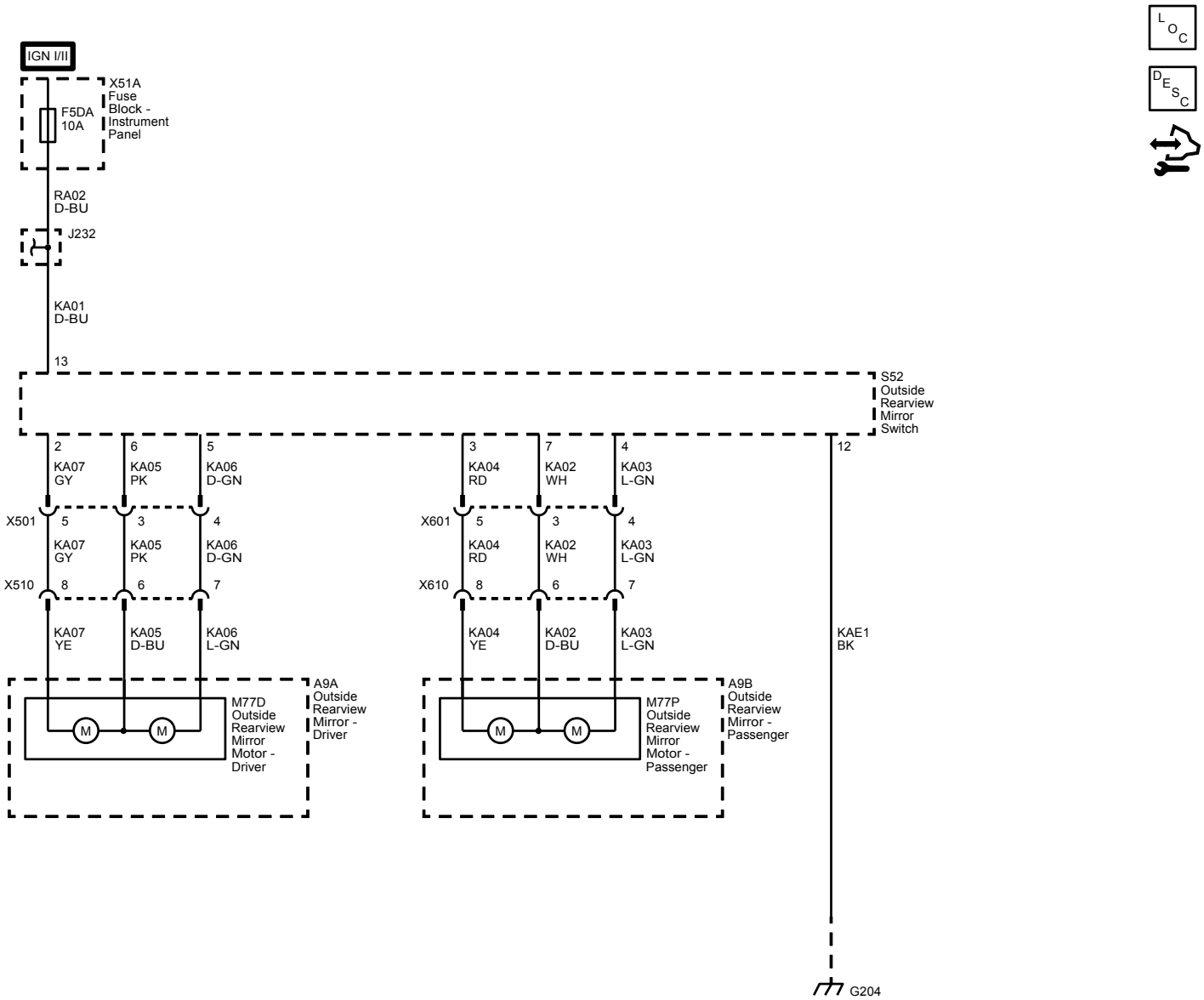
Body Systems

Mirrors

Schematic and Routing Diagrams

Outside Rearview Mirror Schematics

Power, Ground, Power Mirror Switches and Motors



Description and Operation

Outside Mirror Description and Operation

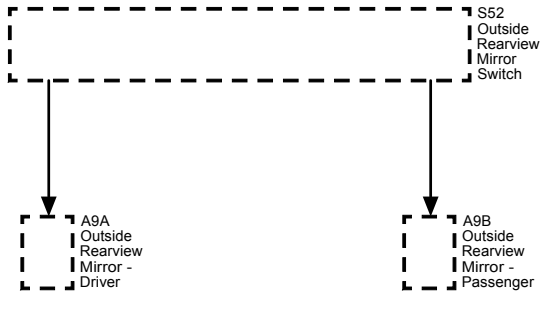
Power Mirror System Components

The power mirror system consists of the following components:

- Outside rearview mirror switch
- Mirror selector switch
- Driver outside rearview mirror
- Passenger outside rearview mirror

Each of the outside rearview mirror contains two motors. The vertical motor operates the mirror in the up and down directions, and the horizontal motor operates the mirror in the left and right directions.

Power Mirros Without A45 Block Diagram



Power Mirror System Controls

The outside rearview mirror switch is a four position directional switch: Up, Down, Left and Right.

The mirror select switch is a three position switch: left, neutral/fold, and right.

Power Mirror System Operation

The outside rearview mirror switch receives battery voltage from the underhood fuse block The power mirror switch also receives a constant ground.

The four positions of the direction switch have dual switch contacts. Each of the contacts are connected to opposing sides of the appropriate power mirror motors through the selector switch. The selector switch completes these circuits depending on the position of the selector switch, L or R.

If the selector switch is placed in the L position and the up switch is pressed, battery voltage will be supplied to the left outside rearview mirror vertical motor through the left mirror motor vertical control circuit and ground through the left mirror motor common control circuit. If the down switch is pressed, battery voltage will be supplied to the left outside rearview mirror vertical motor through the left mirror motor common control circuit and ground through the left mirror motor vertical control circuit.

The remainder of the mirror functions operate in the same manner as described above. Placing the power mirror switch in opposing positions, left/right or up/down, will reverse the polarity to the mirror motor, reversing the direction of movement.

Heated Mirrors (If Equipped)

The heated mirrors are controlled through the rear defog relay. Whenever the rear window defogger is turned on battery voltage is supplied to the mirror heater elements through the left and right mirror heater element control circuits.

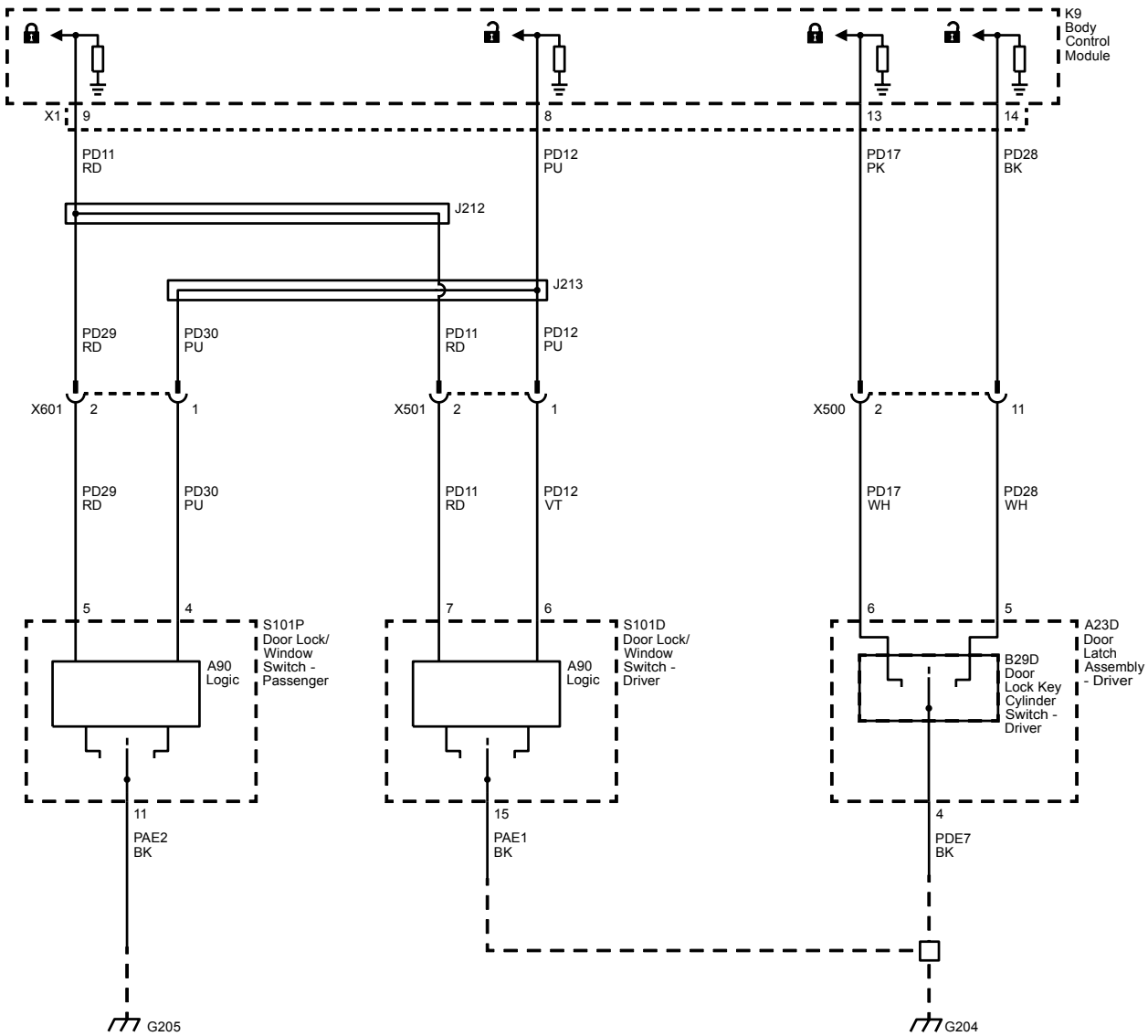
Body Systems

Vehicle Access

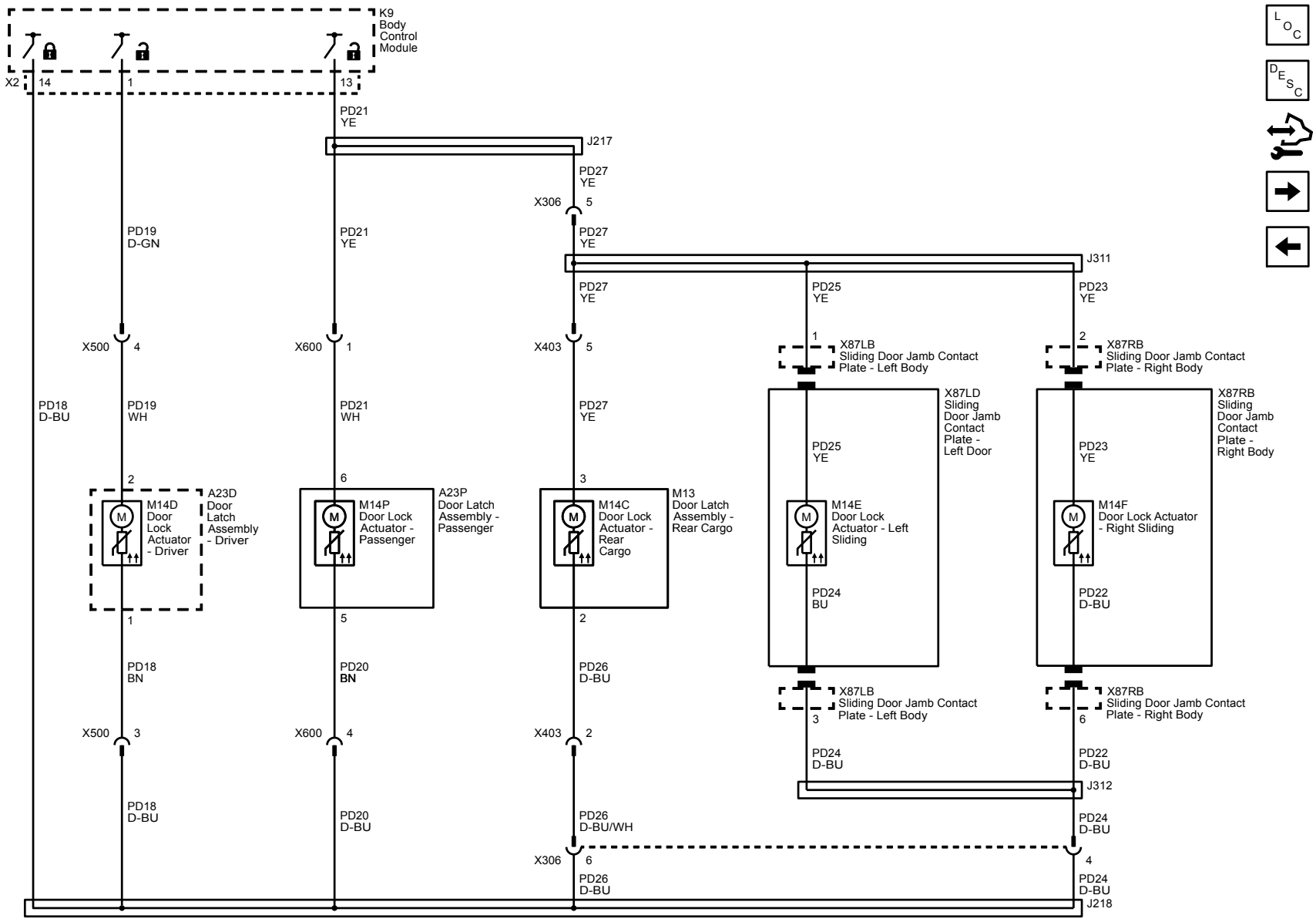
Schematic and Routing Diagrams

Door Lock/Indicator Schematics

Door Lock Switches



Actuators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YE
J217
PD27
YE
X306
5
PD27
YE
J311
PD27
YE
PD25
YE
PD23
YE
PD19
D-GN
PD21
YE
X500
4
X600
1
X403
5
1
X87LB
Sliding Door Jamb Contact
Plate - Left Body
2
X87RB
Sliding Door Jamb Contact
Plate - Right Body
PD18
D-BU
PD19
WH
PD21
WH
PD27
YE
PD25
YE
X87LD
Sliding
Door Jamb
Contact
Plate -
Left Door
PD23
YE
X87RB
Sliding
Door Jamb
Contact
Plate -
Right Body
2
6
3
M14D
Door
Lock
Actuator
- Driver
A23D
Door
Latch
Assembly
- Driver
M14P
Door Lock
Actuator -
Passenger
A23P
Door Latch
Assembly -
Passenger
M14C
Door Lock
Actuator -
Rear
Cargo
M13
Door Latch
Assembly -
Rear Cargo
M14E
Door Lock
Actuator - Left
Sliding
M14F
Door Lock Actuator
- Right Sliding
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BU
PD22
D-BU
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2
PD18
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PD20
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PD26
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X87LB
Sliding Door Jamb Contact
Plate - Left Body
X87RB
Sliding Door Jamb Contact
Plate - Right Body
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PD20
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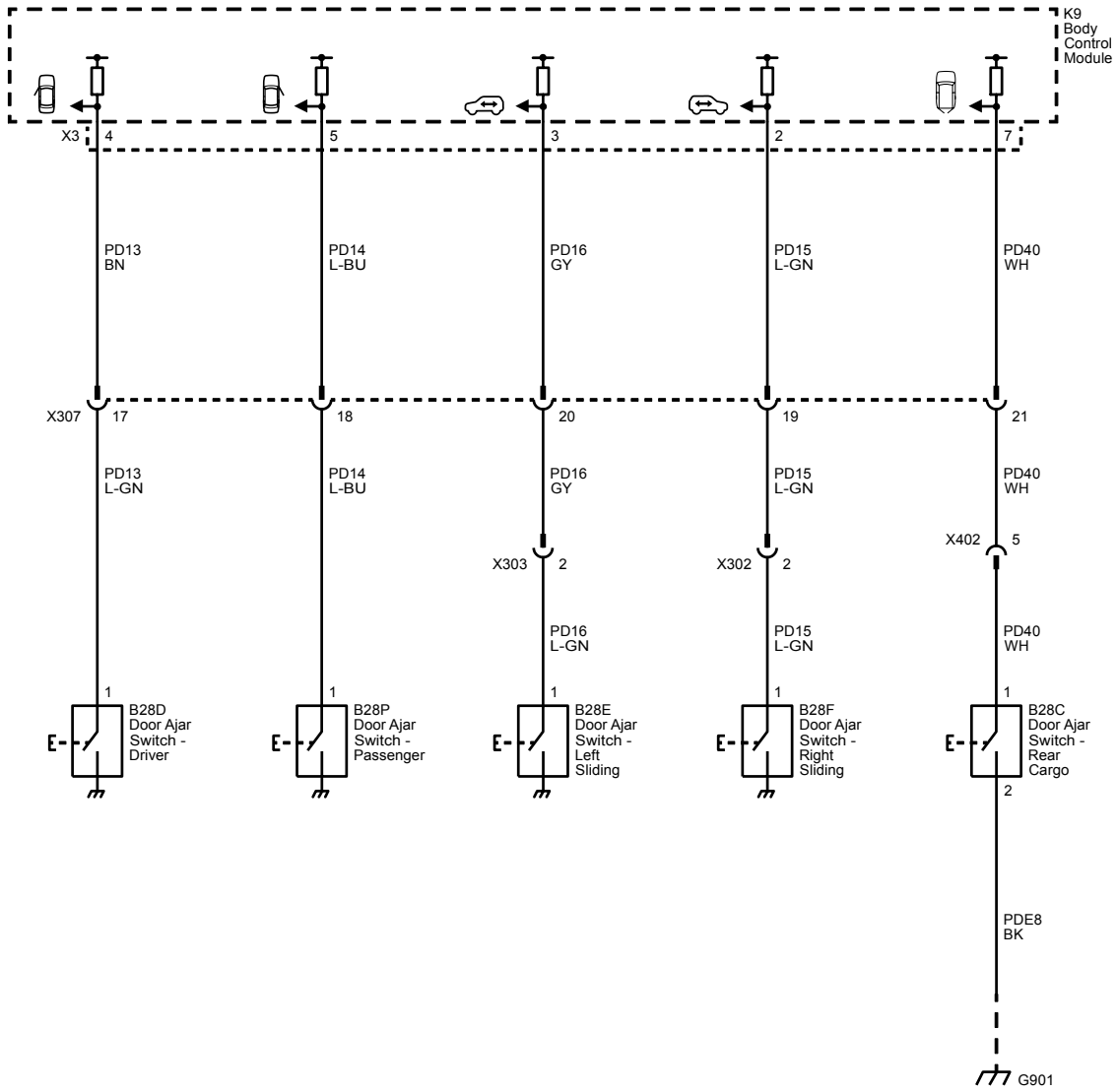
Door Switch Controls



Description and Operation

Door Ajar Indicator Description and Operation

Door Ajar Indicator System Components

The door ajar indicator system consists of the following components:

- The body control module (BCM)
- The instrument panel cluster (IPC)
- The driver information center (DIC)
- The door ajar switch

Door Ajar Operation

The body control module (BCM) receives a discrete input from the door ajar switch to indicate the status of the door. The BCM then communicates this status to the instrument panel cluster (IPC) via GMLAN serial data. The IPC, upon receipt of this message, will illuminate the door ajar message in the driver information center (DIC) and also send a GMLAN serial data message to the radio to activate the door ajar audible warning when the following conditions are met:

- The transmission is shifted out of PARK.
- The vehicle speed is greater than 8 km/h (5 mph).

Power Door Locks Description and Operation

Door Lock System Components

The power door lock system consists of the following components:

- Driver door lock switch
- Passenger door lock switch
- Key cylinder switch
- Body control module (BCM)
- Driver door latch assembly
- Passenger door lock actuator
- Left sliding door lock actuator
- Right sliding door lock actuator
- Rear cargo door lock actuator

Door Lock and Unlock Operation

The BCM supplies a 1.5 V signal to each of the door lock and door unlock signal circuits. When the door lock switches are in the open position, the voltage level in the signal circuit will be near 1.5 V. When any door lock switch is pressed to the lock or unlock position, the voltage level in the appropriate signal circuit will drop to 0 V and the BCM will detect the voltage drop and command the door lock actuators to perform the requested lock or unlock command.

The BCM powers the reversible door lock actuators by providing battery positive voltage and ground to the appropriate lock and unlock control circuits of the door lock actuators. The lock and unlock control circuits of the rear cargo door, the sliding door and passenger door lock actuators are all connected together. Transitioning of the lock actuators to the lock or unlocked position depends upon which control circuits receive voltage and which control circuits receive ground.

The following three circuits are used to operate the lock and unlock control system:

- Driver door unlock
- Passenger/side/rear door unlock
- All door lock

The driver door lock actuator is isolated so it can be unlocked by itself using the keyless entry transmitter.

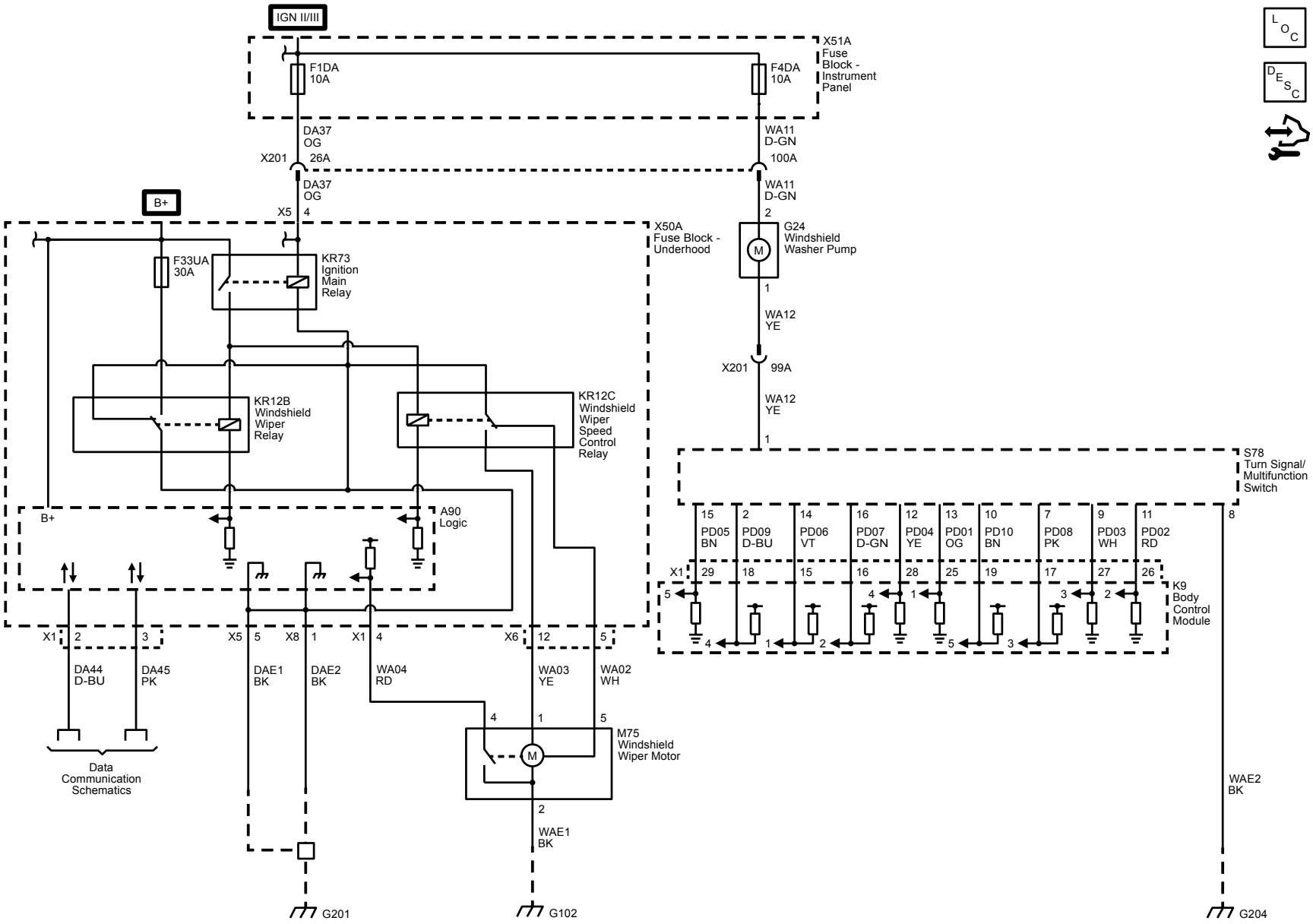
Body Systems

Wipers and Washers

Schematic and Routing Diagrams

Wiper/Washer Schematics

Wiper and Washer Motor Controls



Description and Operation

Wiper/Washer System Description and Operation

Wiper/Washer System Components

The wiper/washer system consists of the following electrical components:

- Windshield Wiper Relay
- Windshield Wiper Speed Control Relay
- Windshield Washer Pump
- Windshield Wiper Motor
- Windshield Wiper/Washer Switch
- Body Control Module (BCM)
- Windshield Washer Fluid Level Switch
- Instrument Cluster
- Underhood Fuse Block (Contains Windshield Washer Pump PCB Relay)

Modes of Operation

The normal wiper system function positions are as follows:

- INTERMITTENT
- LOW
- HIGH
- WASH

Windshield Wiper System

The body control module (BCM) controls the wiper motor via printed circuit board (PCB) relays (Windshield Wiper Relay and Windshield Wiper Speed Control Relay). The BCM determines the wipe/wash system mode of operation by monitoring several signals from the Windshield Wiper/Washer Switch.

The Windshield Wiper operates through the BCM.

1. BCM reads the combination switch position and transmits the front wiper request signal (LO/High/Intermittent/Park) to underhood fuse block using CAN communication.
2. BCM transmits the front wiper request signal (LO/High/Intermittent/Park) to underhood fuse block using CAN communication
3. Underhood fuse block turns ON the front wiper relay
4. The front wiper operates as LO/High/Intermittent/Park based on the wiper switch request.

High Speed Wiper Operation

1. BCM reads the combination switch position (front wiper switch in HI) and transmits the front wiper request signal High to underhood fuse block using CAN communication.
2. BCM transmits the front wiper request signal High to underhood fuse block using CAN communication
3. Underhood fuse block turns ON the front wiper speed relay and the front wiper high relay

Low Speed Wiper Operation

1. BCM reads the combination switch position (front wiper switch in LO) and transmits the front wiper request signal Low to underhood fuse block using CAN communication.
2. BCM transmits the front wiper request signal Low to underhood fuse block using CAN communication
3. Underhood fuse block turns ON the front wiper relay and the front wiper relay and the front wiper Low speed.

Intermittent Wiper Operation

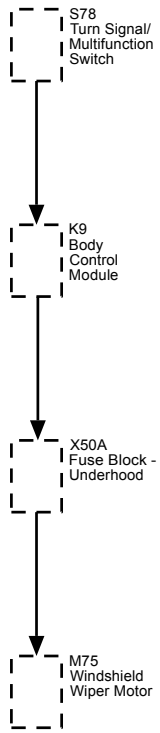
1. BCM reads the combination switch position (front switch is turned INT) and transmits the front wiper request signal intermittent to underhood fuse block using CAN communication.
2. BCM transmits the front wiper request signal intermittent to underhood fuse block using CAN communication
3. Underhood fuse block turns ON the front wiper relay only once.
4. BCM detects stop position of the front wiper motor based on the front wiper stop position signal received from Underhood fuse block
5. BCM transmits the front wiper request signal (INT) again after the delay interval

Wiper Park Operation

1. BCM reads the combination switch position (front wiper switch in OFF) and transmits the front wiper request signal intermittent to underhood fuse block using CAN communication.
2. BCM monitors wiper switch position by combination switch reading position function
3. BCM stops transmitting the front wiper request signal to the Underhood fuse block
4. Underhood fuse block detects the front wiper auto stop signal from the position of the front wiper motor.
5. When the front wiper request signal is stopped, Underhood fuse block turns ON the front wiper relay until the front wiper motor returns to the stop position.

6. Underhood fuse block turns the front wiper relay OFF when the front wiper motor has reached the stop position.

Wiper Block Diagram



Windshield Washer System

The windshield washer pump is not controlled by the BCM, it is only controlled the turn signal multifunction switch. The BCM receives the washer switch signal, but only to send the underhood fuse block a message to control the wipers during the wash.

The body control module (BCM) monitors the switch signal request during the wash request in order to operate the wiper.

When Ignition is on, Battery voltage is supplied. the B+ supply voltage to the windshield washer pump through a 10 A circuit breaker located in the instrument panel fuse block. When the washer switch is pressed, battery voltage is applied through the switch contacts the windshield washer pump control circuit to operate the wash. When the washer switch is in a inactive state, the switch contacts are opened to the switch ground circuit.

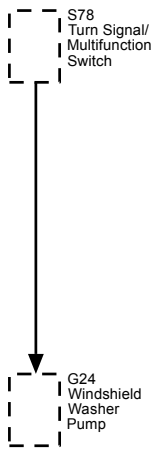
Diagnostic Aids

Note: The windshield washer pump uses washer fluid as a coolant and lubricant, do not activate washer pump for long periods without washer fluid in the windshield washer bottle as the washer pump will overheat and become damaged.

If the windshield washer pump activates but does not spray fluid, inspect for the following:

- Disconnected washer hose
- Cut or perforated washer hose
- Obstructed washer hose
- Dirt or debris in washer bottle obstructing washer pump inlet
- Obstructed washer nozzles

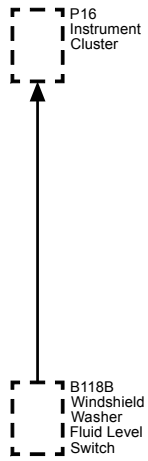
Washer Block Diagram



Washer Fluid Level Indicator

The check washer fluid message is controlled by the instrument cluster using signal from the Windshield Washer Fluid level Sensor. The washer fluid level signal circuit is supplied voltage through a resistor then monitored within the instrument cluster. The Windshield Washer Fluid level Sensor is normally close so the instrument cluster detects voltage on the Windshield Washer Fluid level Sensor signal circuit whenever the washer fluid level sensor is not low. When the washer fluid reaches the point where the driver should be informed that the washer fluid is low, the washer fluid level sensor opens. When the washer fluid level sensor is closed the washer fluid level signal circuit voltage is pulled low, and the instrument cluster displays the LOW WASHER FLUID INDICATOR message on the driver information center. In order to prevent the LOW WASHER FLUID INDICATOR message from being displayed while sloshing is occurring in the washer fluid container, the instrument cluster is programed with a 1 min delay before changing states of the check washer fluid message during an ignition cycle.

Washer Fluid Level Block Diagram



Brakes

Antilock Brake System

Description and Operation

ABS Description and Operation

Electronic Brake Control Module is integrated with the Brake Pressure Modulator and comprehensively controls stabilitrak function, TCS function, ABS function and EBD function.

Electronic Brake Control Module

- Brake fluid pressure is controlled according to signals from each sensor.
- If malfunction is detected, the system enters fail-safe mode.

ACTUATOR

The following components are integrated with ABS actuator.

- Pump
  Returns the brake fluid reserved in reservoir to master cylinder by reducing pressure.
- Motor
  Activates the pump according to signals from ABS actuator and Electronic Brake Control Module .
- Motor Relay
  Operates the motor ON/OFF according to signals from ABS actuator and Electronic Brake Control Module .
- Actuator Relay (Main Relay)
  Operates each valve ON/OFF according to signals from ABS actuator and Electronic Brake Control Module .
- ABS IN Valve
  Switches the fluid pressure line to increase or hold according to signals from control unit.
- ABS OUT Valve
  Switches the fluid pressure line to increase, hold or decrease according to signals from control unit.
- Cut Valve 1, Cut Valve 2
  Shuts off the ordinary brake line from master cylinder, when stabilitrak function and TCS function are activated.
- Suction Valve 1, Suction Valve 2
  Supplies the brake fluid from master cylinder to the pump, when stabilitrak function and TCS function are activated.
- Return Check Valve
  Returns the brake fluid from brake caliper and wheel cylinder to master cylinder by bypassing orifice of each valve when brake is released.
- Reservoir
  Temporarily reserves the brake fluid drained from brake caliper, so that pressure efficiently decreases when decreasing pressure of brake caliper and wheel cylinder.
- Pressure Sensor
  Detects the brake fluid pressure and transmits signal to ABS actuator and Electronic Brake Control Module .

Wheel Sensor and Sensor Rotor

- Wheel sensor of front wheel is installed on steering knuckle.
- Sensor rotor of front wheel is integrated in wheel hub assembly.
- Wheel sensor of rear wheel is installed on back plate of rear brake.
- Sensor rotor of rear wheel is installed on rear brake drum.
- Never measure resistance and voltage value using a tester because sensor is active sensor.
- Downsize and weight reduction is aimed. IC for detection portion and magnet for sensor rotor are adopted.
- Power supply is supplied to detection portion so that magnetic field line is read. Magnetic field that is detected is converted to current
- When sensor rotor rotates, magnetic field changes. Magnetic field change is converted to current signals (rectangular wave) and is transmitted to ABS actuator and Electronic Brake Control Module . Change of magnetic field is proportional to wheel speed.

Stop Lamp Switch

Detects the operation status of brake pedal and transmits converted electric signal to ABS actuator and Electronic Brake Control Module .

Steering Angle Sensor

Detects the following information and transmits steering angle signal to ABS actuator and Electronic Brake Control Module via CAN communication.

- Steering wheel rotation amount
- Steering wheel rotation angular velocity
- Steering wheel rotation direction

Stabilitrak OFF Switch

- Non-operational status or standby status of stabilitrak and TCS functions can be selected using stabilitrak OFF switch. stabilitrak OFF indicator lamp indicates the operation status of function. (ON: Non-operational status, OFF: Standby status)
- stabilitrak OFF indicator lamp turns OFF (standby status) when the engine is started again after it is stopped once while stabilitrak OFF indicator lamp is ON (non-operational status).

Brake Fluid Level Switch

Detects the brake fluid level in reservoir tank and transmits converted electric signal from combination meter to ABS actuator and Electronic Brake Control Module via CAN communication.

Parking Brake Switch

Detects the operation status of parking brake switch and transmits converted electric signal from combination meter to ABS actuator and Electronic Brake Control Module via CAN communication.

YAW RATE/SIDE/DECEL G SENSOR

Yaw rate/side/decel G sensor calculates the following information that affects the vehicle, and transmits a signal to ABS actuator and Electronic Brake Control Module via communication lines.

- Vehicle rotation angular velocity (yaw rate signal)
- Vehicle lateral acceleration (side G signal) and longitudinal acceleration (decel G signal)

Brakes

Disc Brakes

Description and Operation

Disc Brake System Description and Operation

System Component Description

The disc brake system consists of the following components:

Disc Brake Pads: Applies mechanical output force from the hydraulic brake calipers to friction surfaces of brake rotors.

Disc Brake Rotors: Uses mechanical output force applied to friction surfaces from the disc brake pads to slow speed of tire and wheel assembly rotation.

Disc Brake Pad Hardware: Secures disc brake pads firmly in proper relationship to the hydraulic brake calipers. Enables a sliding motion of brake pads when mechanical output force is applied.

Disc Brake Caliper Hardware (Floating Caliper): Provides mounting for hydraulic brake caliper and secures the caliper firmly in proper relationship to caliper bracket. Enables a sliding motion of the brake caliper to the brake pads when mechanical output force is applied.

System Operation (Floating Caliper)

Mechanical output force is applied from the hydraulic brake caliper pistons to the inner brake pads. As the pistons press the inner brake pads outward, the caliper housings draw the outer brake pads inward. This allows the output force to be equally distributed. The brake pads apply the output force to the friction surfaces on both sides of the brake rotors, which slows the rotation of the tire and wheel assemblies. The correct function of both the brake pad and brake caliper hardware is essential for even distribution of braking force.

System Operation (Fixed Caliper)

Mechanical output force is applied from the hydraulic brake caliper inboard and outboard pistons to the inner and outer brake pads. The brake calipers are a fixed, opposed-piston design, allowing the output force to be equally distributed through the distribution of the pressurized brake fluid within the caliper. The brake pads apply the output force to the friction surfaces on both sides of the brake rotors, which slows the rotation of the tire and wheel assemblies. The correct function of the brake pad hardware and of the brake caliper inboard and outboard pistons is essential for even distribution of braking force.

Brakes

Drum Brakes

Description and Operation

Drum Brake System Description and Operation

System Component Description

The drum brake system consists of the following:

Drum Brake Shoes: Applies mechanical output force, from hydraulic brake wheel cylinders, to friction surfaces of brake drums.

Brake Drums: Uses mechanical output force applied to friction surface from drum brake shoes to slow speed of tire and wheel assembly rotation.

Brake Drum Hardware: Secures drum brake shoes firmly in proper relationship to hydraulic brake wheel cylinders. Enables sliding motion of brake shoes needed to expand toward friction surface of drums when mechanical output force is applied. Provides return of brake shoes when mechanical output force is relieved.

Brake Drum Adjusting Hardware: Provides automatic adjustments of brake shoes to brake drum friction surface whenever brake apply occurs.

System Operation

Mechanical output force is applied from the hydraulic brake wheel cylinder pistons to the top of the drum brake shoes. The output force is then distributed between the primary and secondary brake shoes as the shoes expand toward the friction surface of the brake drums. The brake shoes apply the output force to the friction surface of the brake drums, which slows the rotation of the tire and wheel assemblies. The proper friction of both the drum brake hardware and adjusting hardware is essential to the proper distribution of braking force.

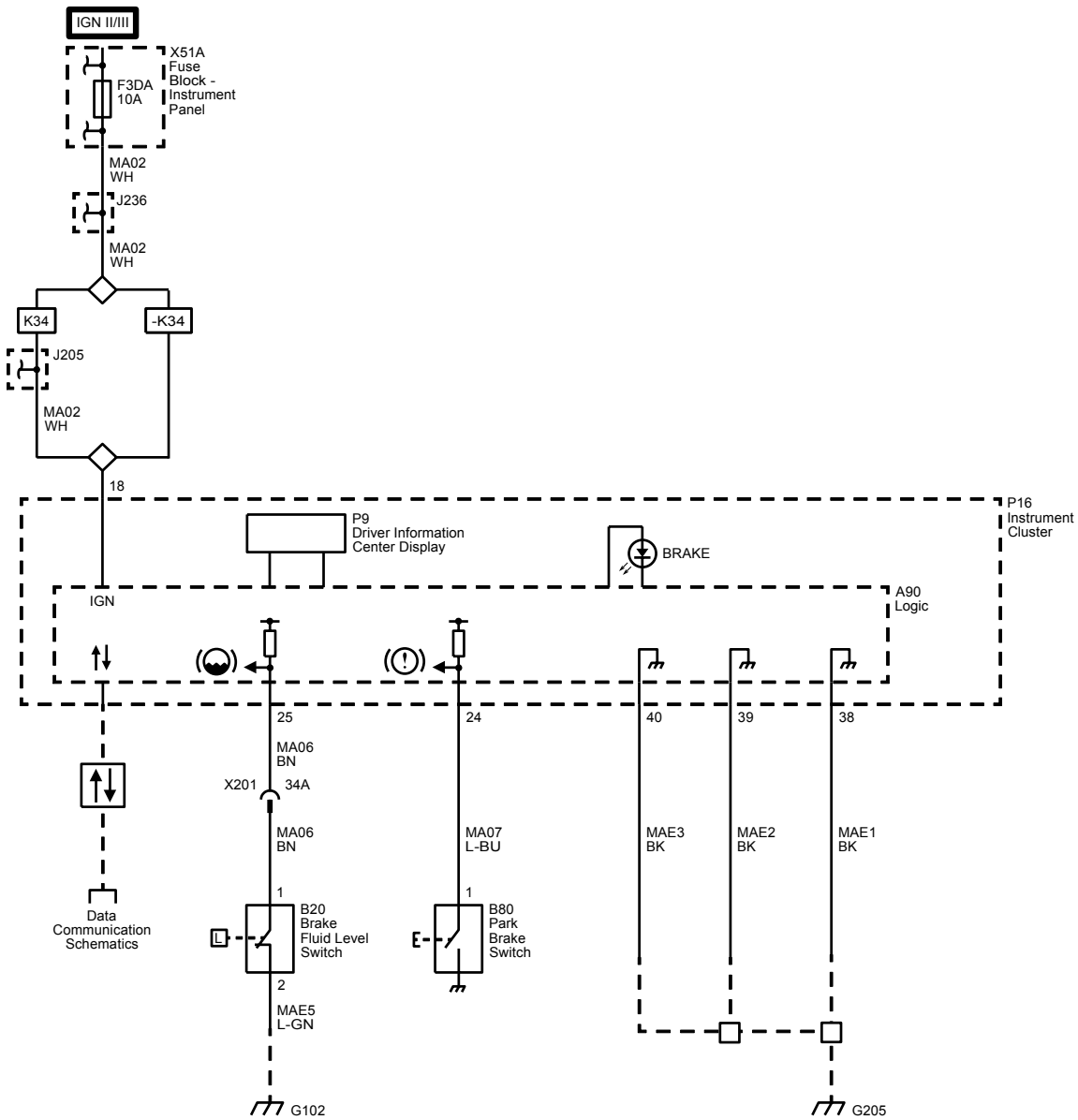
Brakes

Hydraulic Brakes

Schematic and Routing Diagrams

Hydraulic Brake Schematics

Hydraulic Brake



Description and Operation

Brake Assist System Description and Operation

System Component Description

The brake assist system consists of the following:

Brake Pedal: Receives, multiplies and transfers brake system input force from driver.

Brake Pedal Pushrod: Transfers multiplied input force received from brake pedal to brake booster.

Vacuum Brake Booster: Uses source vacuum to decrease effort required by driver when applying brake system input force.

At rest, source vacuum is applied to both sides of the vacuum diaphragm for single boosters, or to both sides of each of the diaphragms for tandem boosters. Return springs maintain the booster in a rest position.

When brake system input force is applied, vacuum to the rear of the diaphragm(s) is cut off, and air at atmospheric pressure is admitted in its place. This provides a decrease in brake pedal effort required. When input force is removed, vacuum again replaces atmospheric pressure within the booster.

Vacuum Source: Supplies force used by vacuum brake booster to decrease brake pedal effort.

The primary source for vacuum is typically the vehicle's internal combustion engine. Some vehicles may use a vacuum pump to ensure and adequate supply of vacuum under various operating conditions, such as during cold start-up, heavy throttle, and high altitude.

Vacuum Pump Relay: Vehicles equipped with a vacuum pump will typically be equipped with a relay used to provide voltage to the vacuum pump motor, when commanded by the powertrain controller.

Vacuum Monitoring System: Provides a feedback voltage signal relative to the amount of vacuum available for the vacuum power brake booster.

This typically consists of a vacuum sensor mounted either into the power vacuum brake booster, integrated with the vacuum check valve, or in-line within the vacuum hose. The sensor feedback is typically monitored by the powertrain control module(s).

Vacuum Source Control: If equipped with a system to monitor available levels of vacuum for the brake assist system, the powertrain control module(s) typically perform the primary monitoring function.

The powertrain controller will typically monitor the feedback signal of a vacuum sensor, as it relates to available vacuum at the vacuum power brake booster. The powertrain controller uses the information to make sure available vacuum remains above predetermined levels. If additional vacuum is required, the powertrain controller may reactivate engine cylinders, if equipped, or command a vacuum pump ON, if equipped, and/or may alter the operation of various other engine controls and devices, as necessary.

Vacuum Source Delivery System: Enables delivery and retention of source vacuum for vacuum brake booster.

This typically consists of a vacuum check valve and a vacuum hose or pipe. If a vacuum pump is used, additional check valves may be used.

System Operation

Brake system input force from the driver is multiplied by the brake pedal and transferred by the pedal pushrod to the hydraulic brake master cylinder. Effort required to apply the brake system is reduced by the operation of the vacuum brake booster.

When brake system force is applied, vacuum to the rear of the diaphragm(s) is cut off, and air at atmospheric pressure is admitted in its place. The vacuum acts to pull the diaphragm(s) forward, while the atmospheric pressure acts to push from behind. As a result, the amount of effort required by the driver is reduced. When input force is removed, vacuum again replaces atmospheric pressure within the vacuum power brake booster to help return the booster to rest. Return springs maintain the system in a rest position.

If the vehicle is equipped with a vacuum monitoring system, the powertrain control module(s) typically will alter powertrain functions and/or command the vacuum pump ON, if equipped, to provide for the vacuum needs of the brake assist system, as operating conditions warrant.

Brake Warning System Description and Operation

Brake Warning Indicator

The instrument cluster turns the brake warning indicator ON when the following occurs:

- The instrument cluster performs the bulb check. The brake warning indicator illuminates briefly.
- When the Electronic Brake Control Module (EBCM) detects low brake fluid level it sets a DTC and sends a serial data message to the instrument cluster, which will illuminate the red brake indicator.
- The instrument cluster detects that the parking brake is engaged and illuminates the red brake indicator..

Driver Information Center Messages

When the Electronic Brake Control Module (EBCM) detects low brake fluid level it sets a DTC and sends a serial data message to the Driver Information Center , which will display Brake Fluid Low message.

Hydraulic Brake System Description and Operation

System Component Description

The hydraulic brake system consists of the following:

Hydraulic Brake Master Cylinder Fluid Reservoir: Contains supply of brake fluid for the hydraulic brake system.

Hydraulic Brake Master Cylinder: Converts mechanical input force into hydraulic output pressure.

Hydraulic output pressure is distributed from the master cylinder through 2 hydraulic circuits, supplying diagonally opposed wheel apply circuits.

Hydraulic Brake Pressure Balance Control System: Regulates brake fluid pressure delivered to hydraulic brake wheel circuits, in order to control the distribution of braking force.

Pressure balance control is achieved through dynamic rear proportioning (DRP), which is a function of the ABS modulator. Refer to ABS Description and Operation for specific information on the operation of DRP.

Hydraulic Brake Pipes and Flexible Brake Hoses: Carries brake fluid to and from hydraulic brake system components.

Hydraulic Brake Wheel Apply Components: Converts hydraulic input pressure into mechanical output force.

System Operation

Mechanical force is converted into hydraulic pressure by the master cylinder, regulated to meet braking system demands by the pressure balance control system, and delivered to the hydraulic brake wheel circuits by the pipes and flexible hoses. The wheel apply components then convert the hydraulic pressure back into mechanical force which presses linings against rotating brake system components.

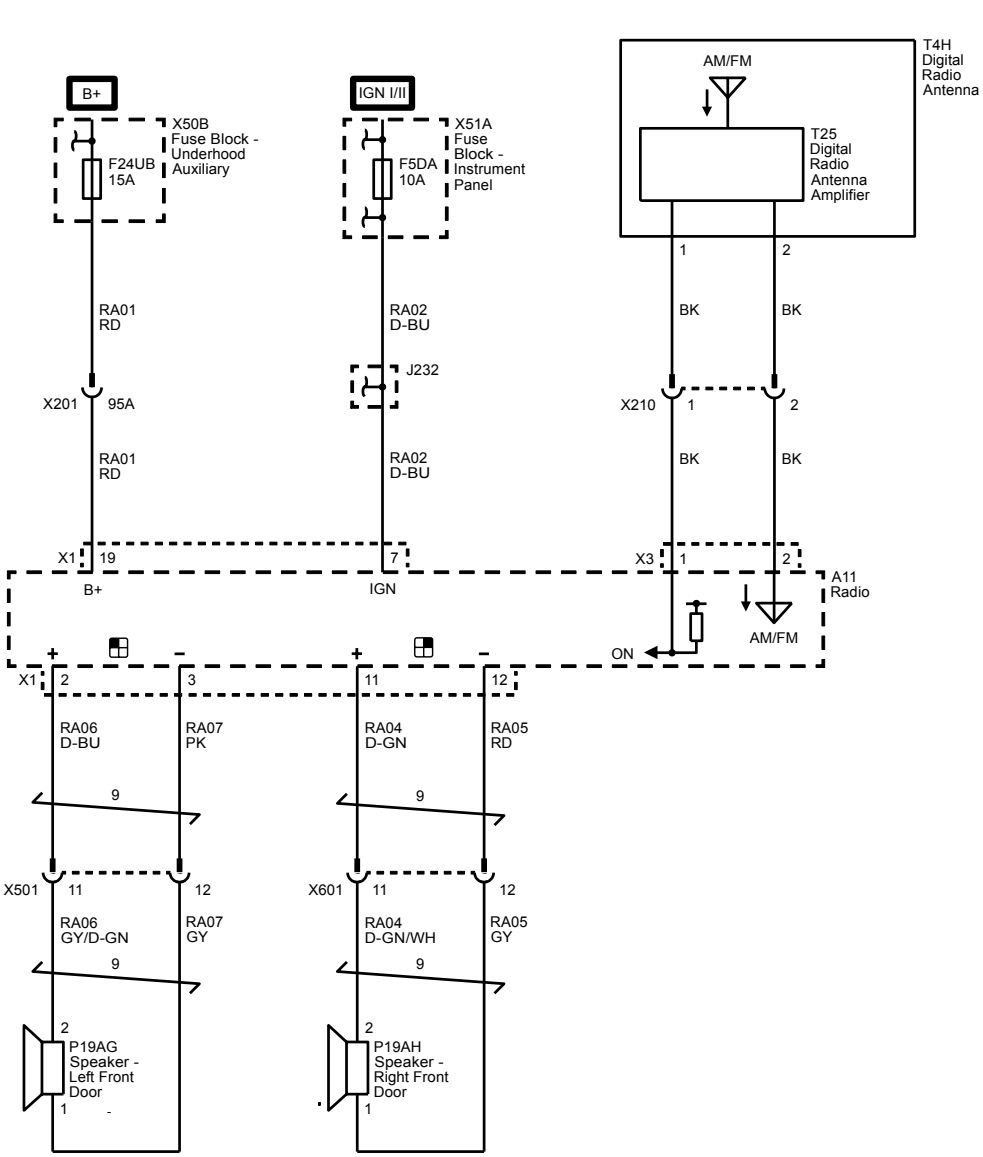
Driver Information and Entertainment

Cellular, Entertainment, and Navigation

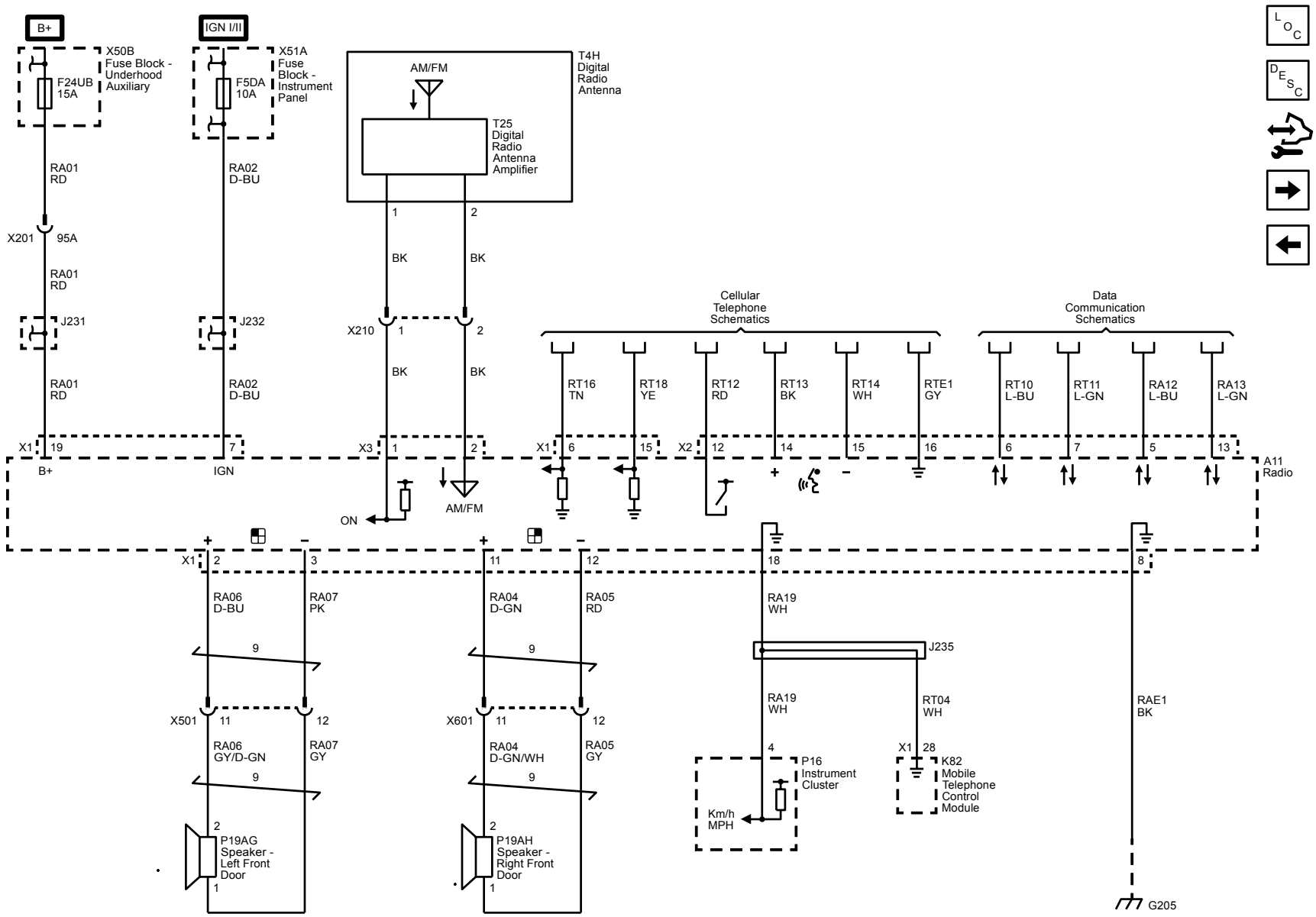
Schematic and Routing Diagrams

Radio/Navigation System Schematics

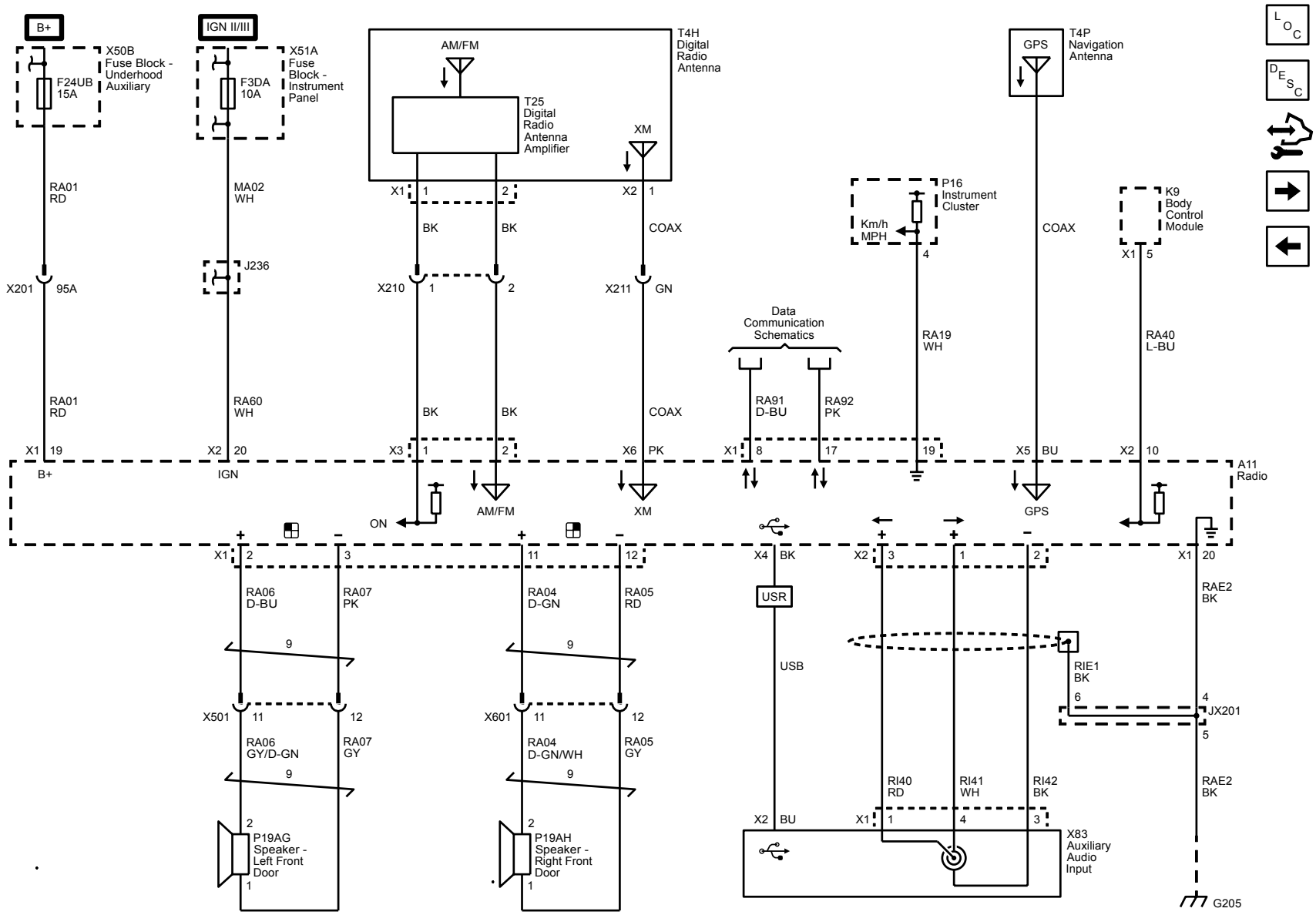
Radio (U1B-UPF)

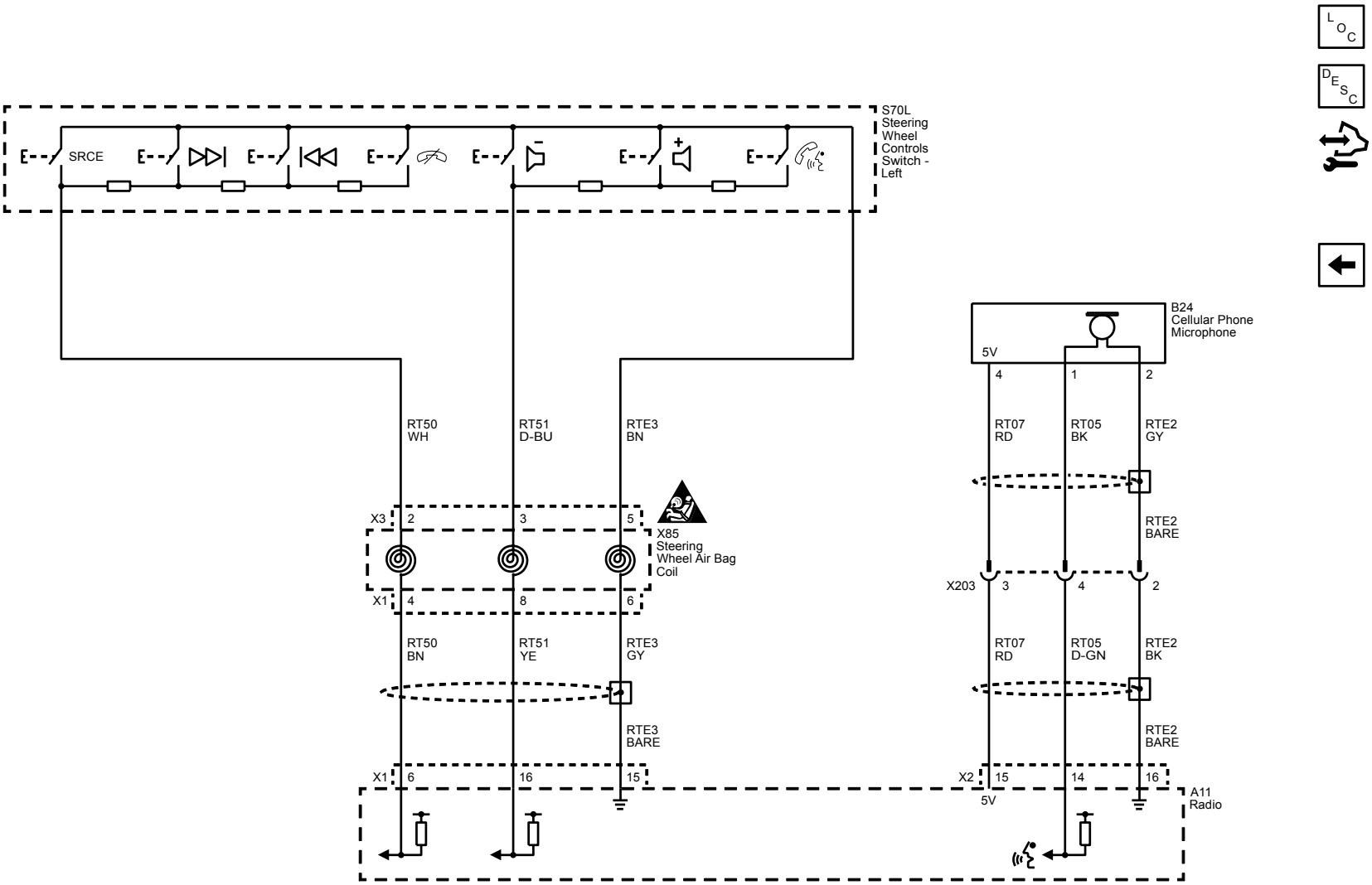


Radio (U1B+UPF)



Power, Ground, Serial Data, Antennas, Auxiliary Outlets, Speed Signal, and Speakers (CWM)




S70L
Steering
Wheel
Controls
Switch -
Left
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WH
RT51
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RTE3
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Wheel Air Bag
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RT50
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RT51
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RTE3
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RTE3
BARE
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15
B24
Cellular Phone
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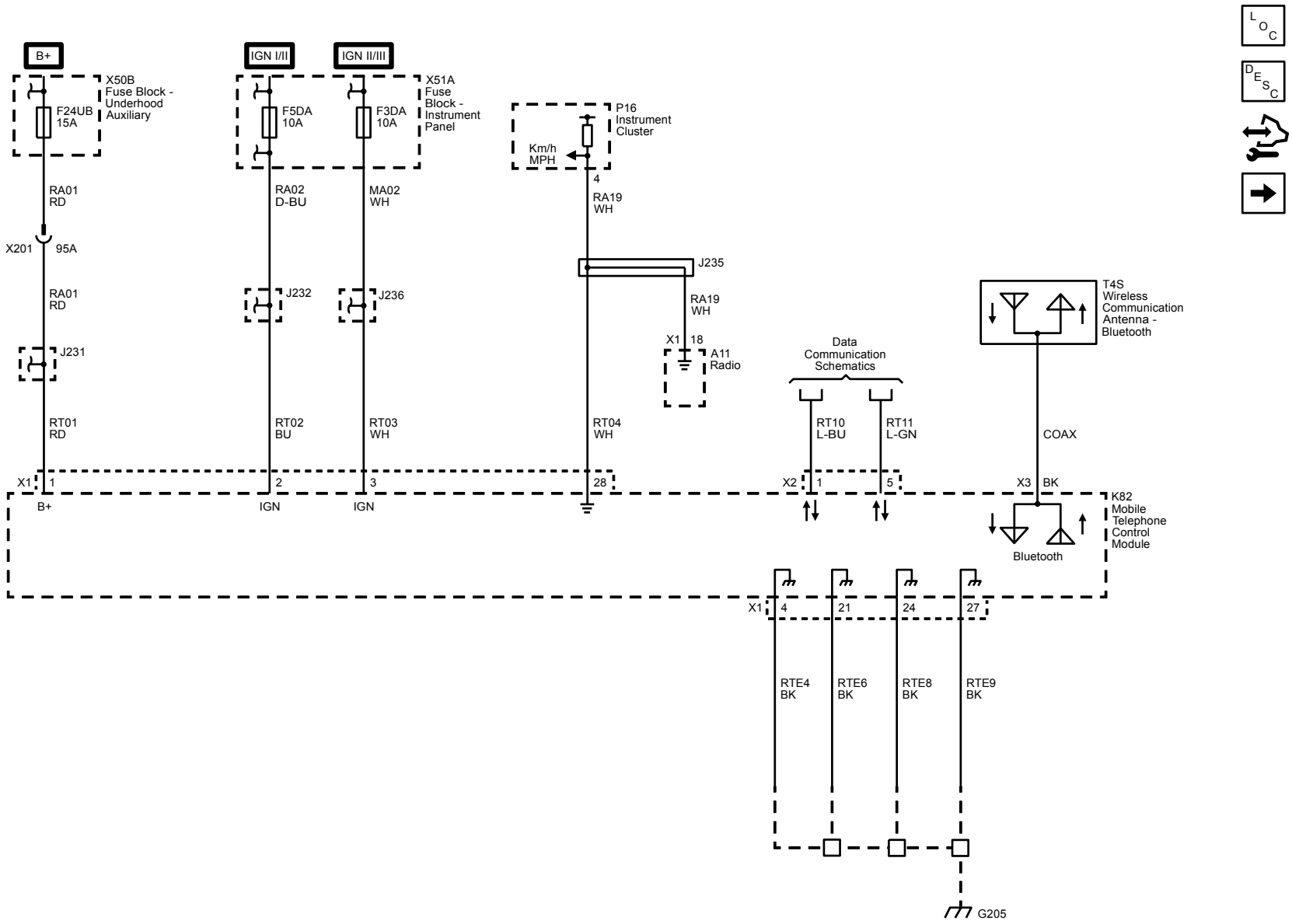
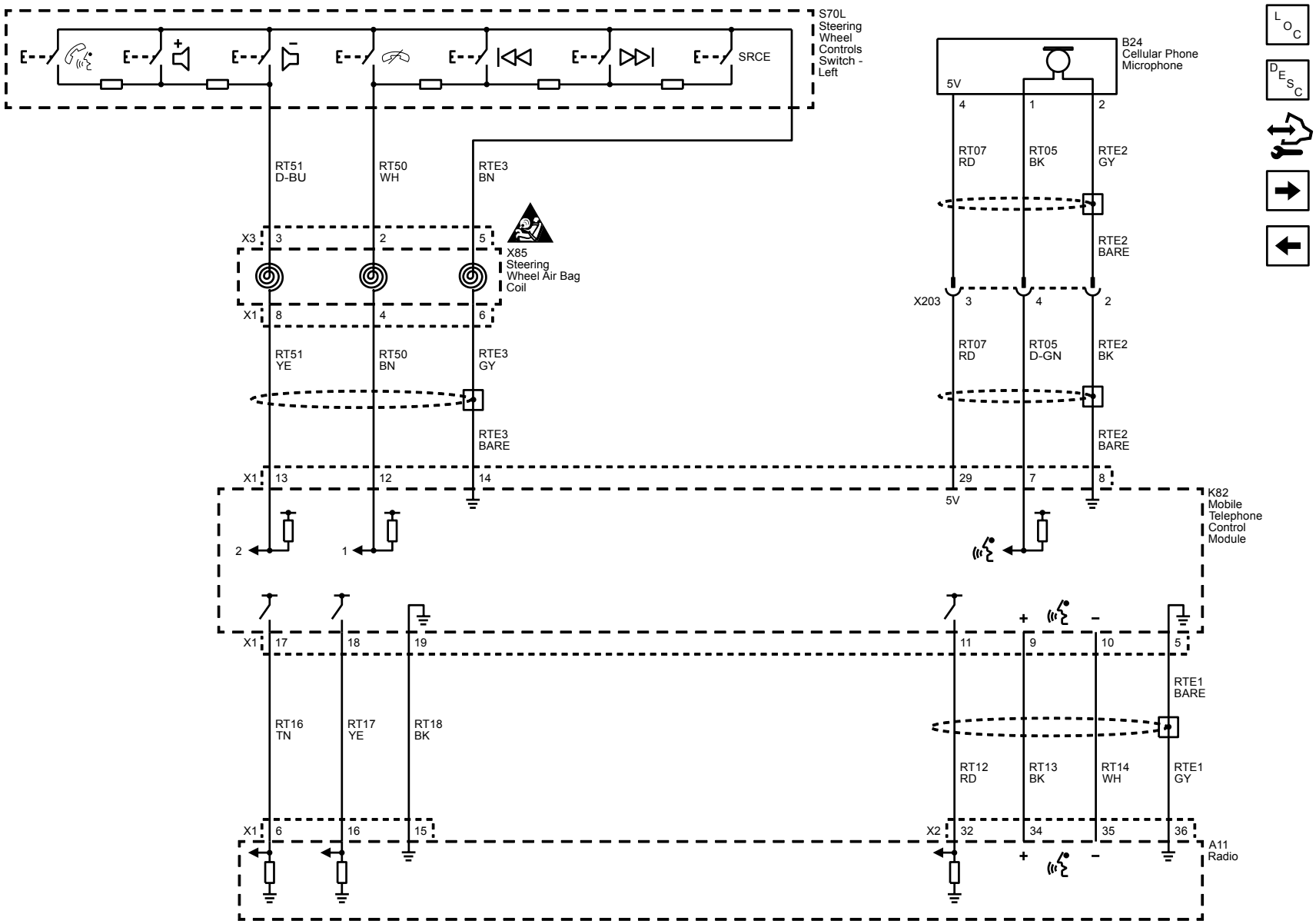
A11
Radio

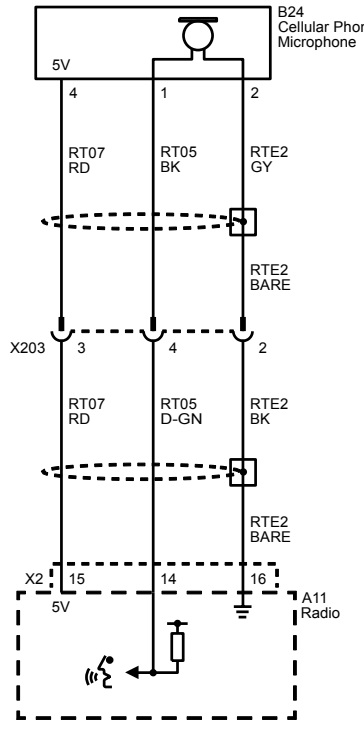
Power, Ground, Serial Data, Antenna, and Vehicle Speed (U1B+UPF)



Cellular Steering Wheel Switches, Cellular Phone Microphone, and Radio Communications (U1B+UPF)



Cellular Phone Microphone (CWM)



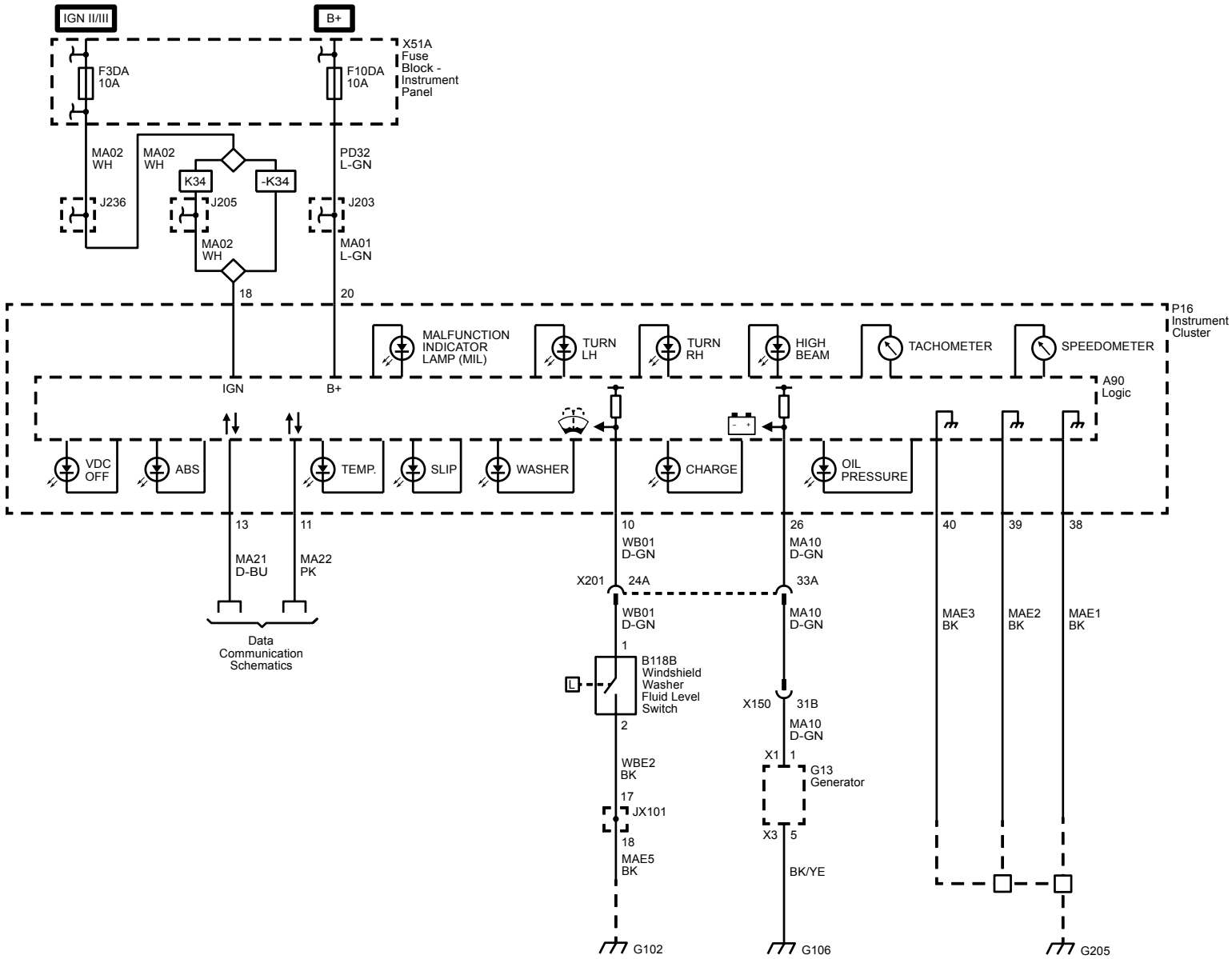
Driver Information and Entertainment

Displays and Gauges

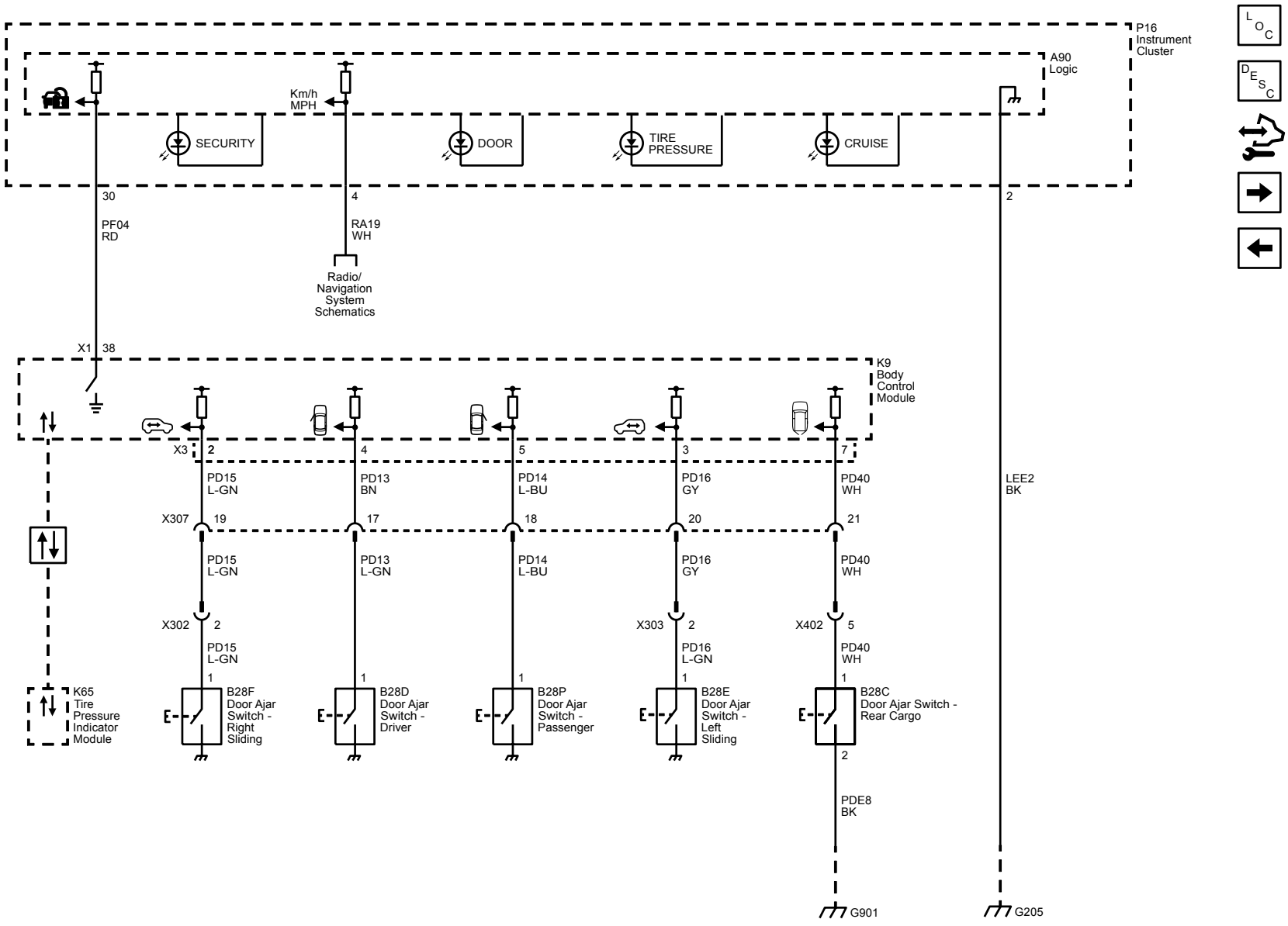
Schematic and Routing Diagrams

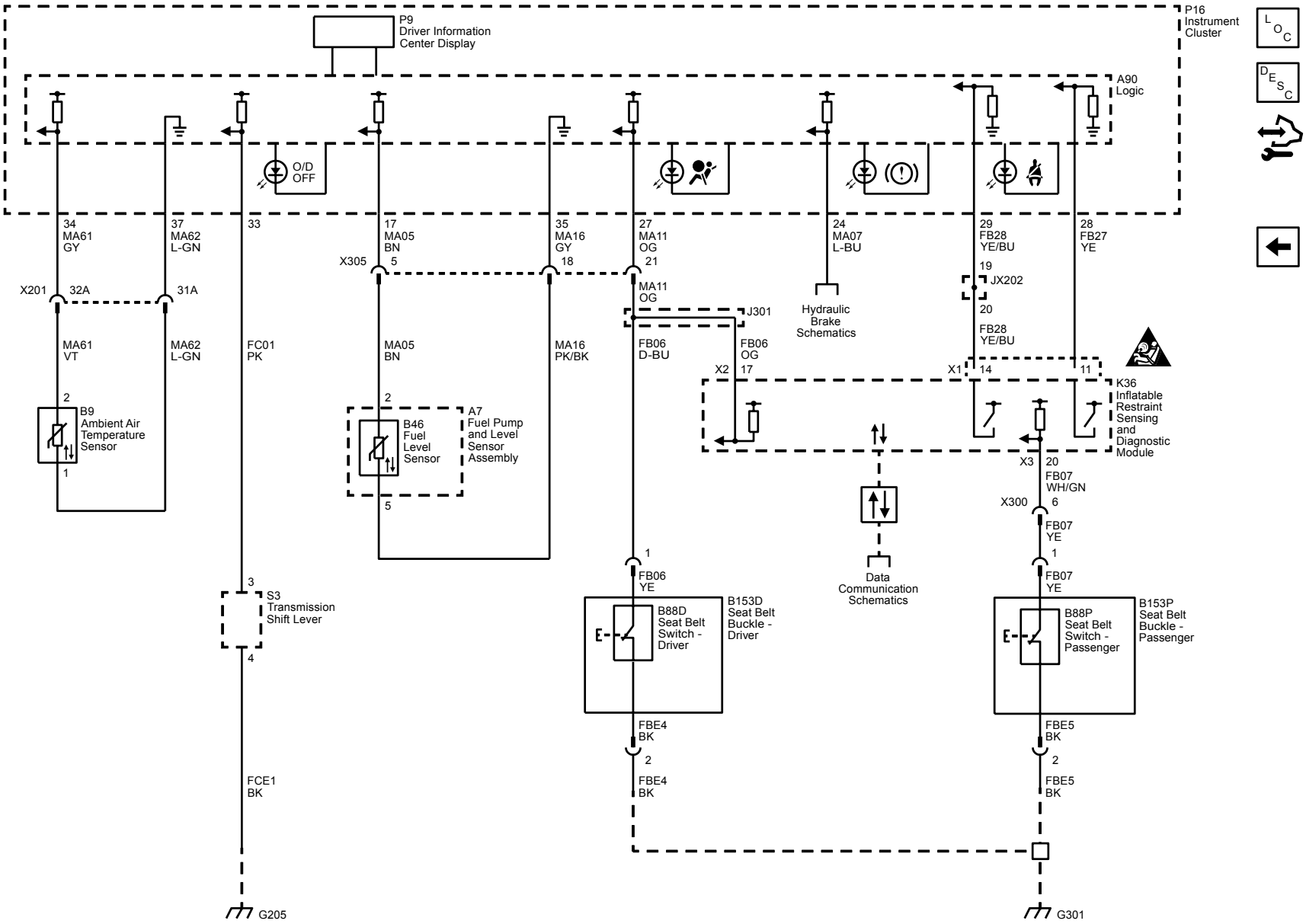
Instrument Cluster Schematics

Power, Ground, Gauges, and Serial Data



Door Ajar Switches and Tire Pressure Indicator Module




P9
Driver Information
Center Display
P16
Instrument
Cluster
A90
Logic
O/D
OFF
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MA61
GY
37
MA62
L-GN
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17
MA05
BN
X305
5
35
MA16
GY
18
27
MA11
OG
21
24
MA07
L-BU
29
FB28
YE/BU
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JX202
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FB28
YE/BU
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FB27
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X201
32A
31A
MA11
OG
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MA61
VT
MA62
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FC01
PK
MA05
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MA16
PK/BK
FB06
D-BU
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OG
X2
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X1
14
11
K36
Inflatable
Restraint
Sensing
and
Diagnostic
Module
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B9
Ambient Air
Temperature
Sensor
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B46
Fuel
Level
Sensor
A7
Fuel Pump
and Level
Sensor
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FB07
WH/GN
X300
6
FB07
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S3
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FCE1
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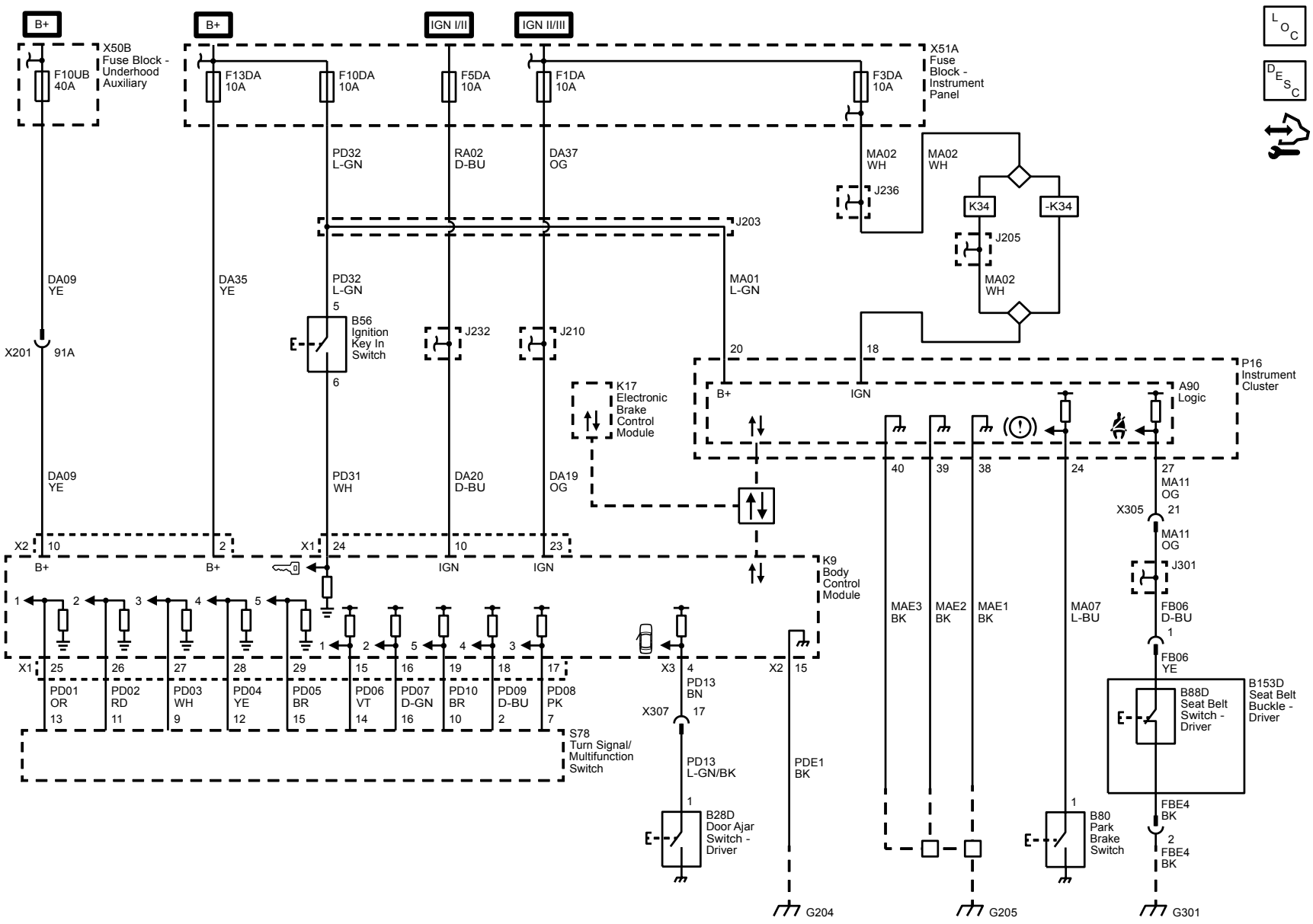
G205
G301

Audible Warnings Schematics

Audible Warnings



Description and Operation

Audible Warnings Description and Operation

The instrument cluster generates the audible warning through a built-in speaker. The instrument cluster receives audible warning requests via the serial data circuit from the body control module and electronic brake control module. The instrument cluster also receives audible warning signals directly from the parking brake switch and seat belt switch.

Fasten Safety Belt Warning

The instrument cluster activates the audible warning as requested by the body control module (BCM). The BCM sends a serial data message to the instrument cluster. The fasten safety belt warning sounds when the following occurs:

- The ignition switch transitions to ON.
- The inflatable restraint sensing and diagnostic module (SDM) detects that the drivers seat belt is not buckled and the signal is low. The SDM sends a serial data message to the BCM indicating the seat belt status. The instrument cluster receives a serial data message from the BCM indicating the driver seat belt status.

If the seat belt is buckled when the ignition is turned ON, the chime does not sound. If the seat belt is buckled while the chime is sounding, the chime stops. If the seat belt is unbuckled after the initial transition to ON, the chime does not sound.

Door Ajar Warning

The instrument cluster activates the door ajar audible warning as requested by the BCM. The BCM sends a serial data message to the instrument cluster when the BCM determines that the driver door is open and the signal circuit is low.

Additional Warnings

The following warnings have an associated instrument cluster indicator or driver information center message:

- Turn Signal Indicators—The chime producer activates the audible warning as requested by the BCM. The chime produces two different chimes, one when the turn signal turns off and another when the turn signal turns on.
- Fuel Level Low Message—The chime producer activates the audible warning as requested by the BCM. The BCM sends a serial data message to the chime producer.
- Oil Pressure Indicator—The chime producer activates the audible warning as requested by the BCM. The BCM sends a serial data message to the chime producer.
- Tire Pressure Low Indicator—The chime producer activates the audible warning as requested by the BCM. The BCM sends a serial data message to the chime producer.

Indicator/Warning Message Description and Operation

Indicator LIGHT ON

Refer to the owner's manual for the descriptions and explanations of all indicator lights.

For diagnosis and repair information related to an indicator light, refer to the System Diagnosis and the Description of Operation that the message relates to.

Message Displayed

Refer to the owner's manual for descriptions and explanations of all messages displayed.

For diagnosis and repair information related to a displayed message, refer to the System Diagnosis and the Description of Operation that the message relates to.

Instrument Cluster Description and Operation

Displays Test

Certain instrument cluster features are tested when the ignition is turned on in order to verify the features are working properly. The following occurs when the ignition is turned on:

- The ABS indicator illuminates briefly.
- The airbag indicator illuminates briefly.
- The battery indicator illuminates briefly.
- The brake indicator illuminates briefly.
- The door ajar indicator illuminates briefly.
- The fuel level low indicator illuminates briefly.
- The oil pressure low indicator illuminates briefly.
- The service vehicle soon indicator illuminates briefly.
- The vehicle dynamic caution service indicator illuminates briefly.
- The vehicle dynamics caution off indicator illuminates briefly.

Indicators and Warning Messages

Refer to Indicator/Warning Message Description and Operation

Engine Coolant Temperature Gauge

The instrument cluster displays the engine coolant temperature as determined by the engine control module (ECM). The ECM sends the engine coolant temperature information via serial data to the instrument cluster to display the engine coolant temperature. The engine coolant temperature gauge defaults to 40°C (104°F) or below if:

- The ECM detects a malfunction in the engine coolant temperature sensor circuit.
- The instrument cluster detects a loss of serial data communications with the ECM.

Fuel Level Gauge

The instrument cluster displays the fuel level based on the information from the ECM via serial data. The ECM converts the data from the fuel level sensor to a fuel level signal. The fuel gauge defaults to empty if:

- The ECM detects a malfunction in the fuel level sensor circuit.
- The instrument cluster detects a loss of serial data communications with the ECM.

Speedometer

The instrument cluster displays the vehicle speed based on the information from the ECM. The ECM sends the vehicle speed information via serial data to the instrument cluster in order to display the vehicle speed, either in kilometers or miles, based on the vehicle requirements. The speedometer defaults to 0 km/h (0 MPH) if the instrument cluster detects a loss of serial data communications with the ECM.

Outside Air Temperature

The outside air temperature can be accessed through the driver information center. The driver information center shows the outside air temperature as a damped value. The time and rate of the temperature update is based on an algorithm in the instrument cluster. Factors such as last temperature reading, current temperature reading, length of time the vehicle was off, current vehicle speed, and the distance driven effect when the displayed temperature is updated. To get the vehicle to display the most accurate temperature faster, drive the vehicle. Constant moving traffic will update the display to the correct temperature more quickly than stop and go traffic.

Driver Information Center Display

In the lower middle of the instrument cluster, an additional display is installed. Its task is to give additional information, such as an odometer or error codes.

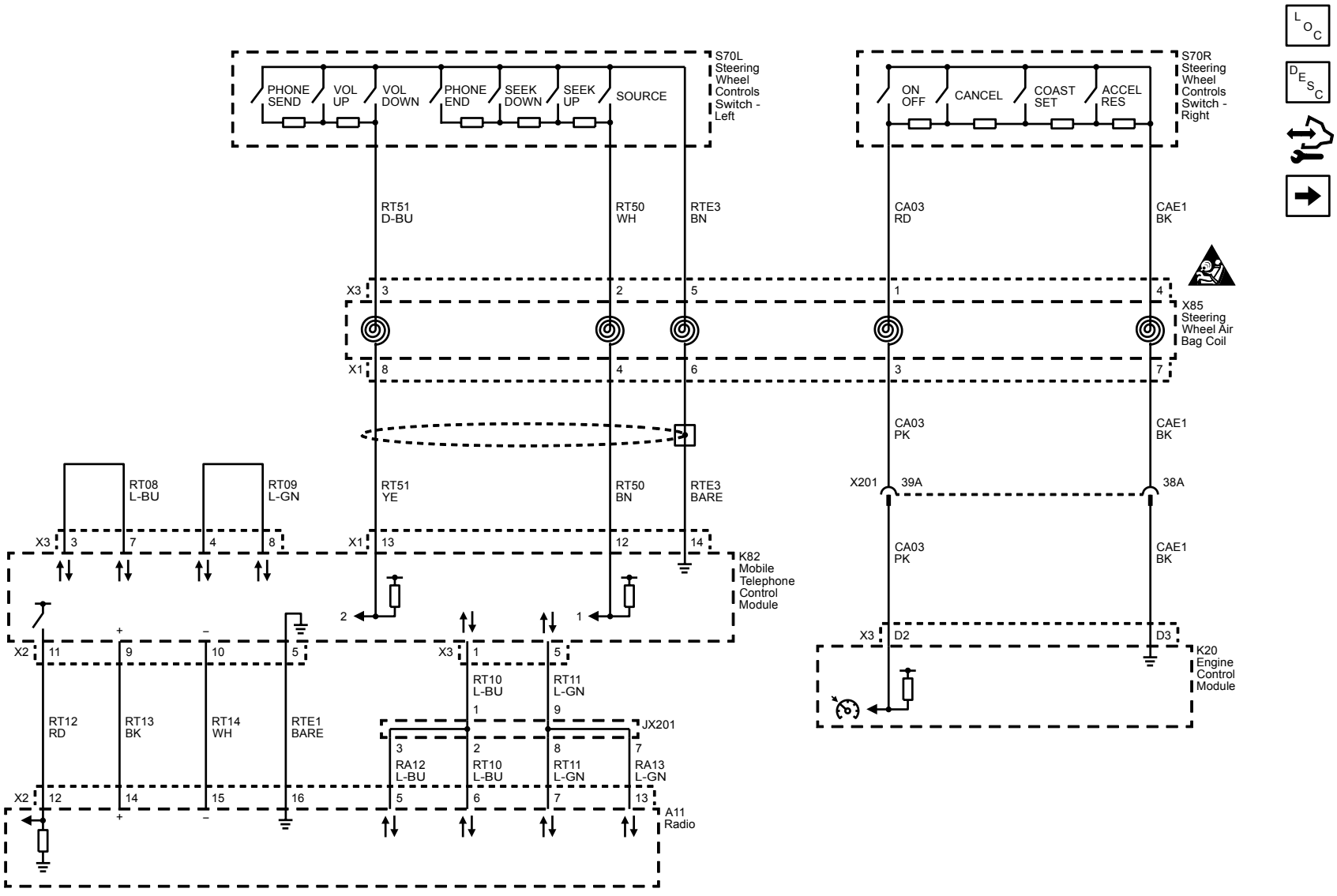
Driver Information and Entertainment

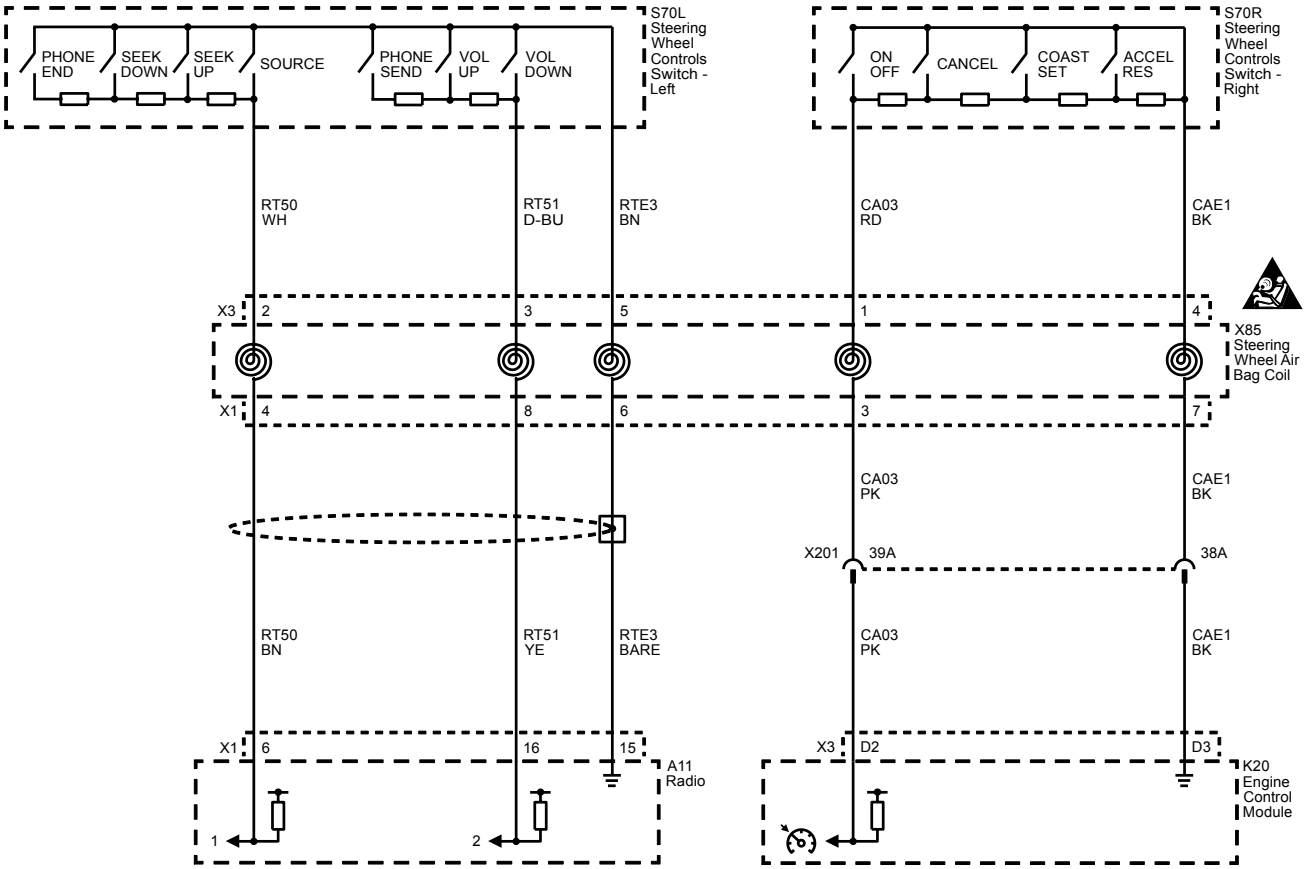
Secondary and Configurable Customer Controls

Schematic and Routing Diagrams

Steering Wheel Secondary/Configurable Control Schematics

UPF




S70L Steering Wheel Controls Switch - Left
PHONE END
SEEK DOWN
SEEK UP
SOURCE
PHONE SEND
VOL UP
VOL DOWN
S70R Steering Wheel Controls Switch - Right
ON OFF
CANCEL
COAST SET
ACCEL RES
RT50 WH
RT51 D-BU
RTE3 BN
CA03 RD
CAE1 BK
X3
2
3
5
1
4
X85 Steering Wheel Air Bag Coil
X1
4
8
6
3
7
CA03 PK
CAE1 BK
X201
39A
38A
RT50 BN
RT51 YE
RTE3 BARE
CA03 PK
CAE1 BK
X1
6
16
15
A11 Radio
1
2
X3
D2
D3
K20 Engine Control Module

Description and Operation

Steering Wheel Controls Description and Operation

The steering wheel control switches duplicate the function of the primary controls of the associated component, through a network of multiple momentary contact switches and a series of resistors. The radio supplies voltage to the switches and monitors the return signal for when a switch is pressed, a specific voltage drop occurs.

This section is intended to diagnosis the circuits between the radio and the steering wheel control switches. If the primary control for the device is inoperative, refer to the appropriate section for the component the steering wheel control switch is functioning.

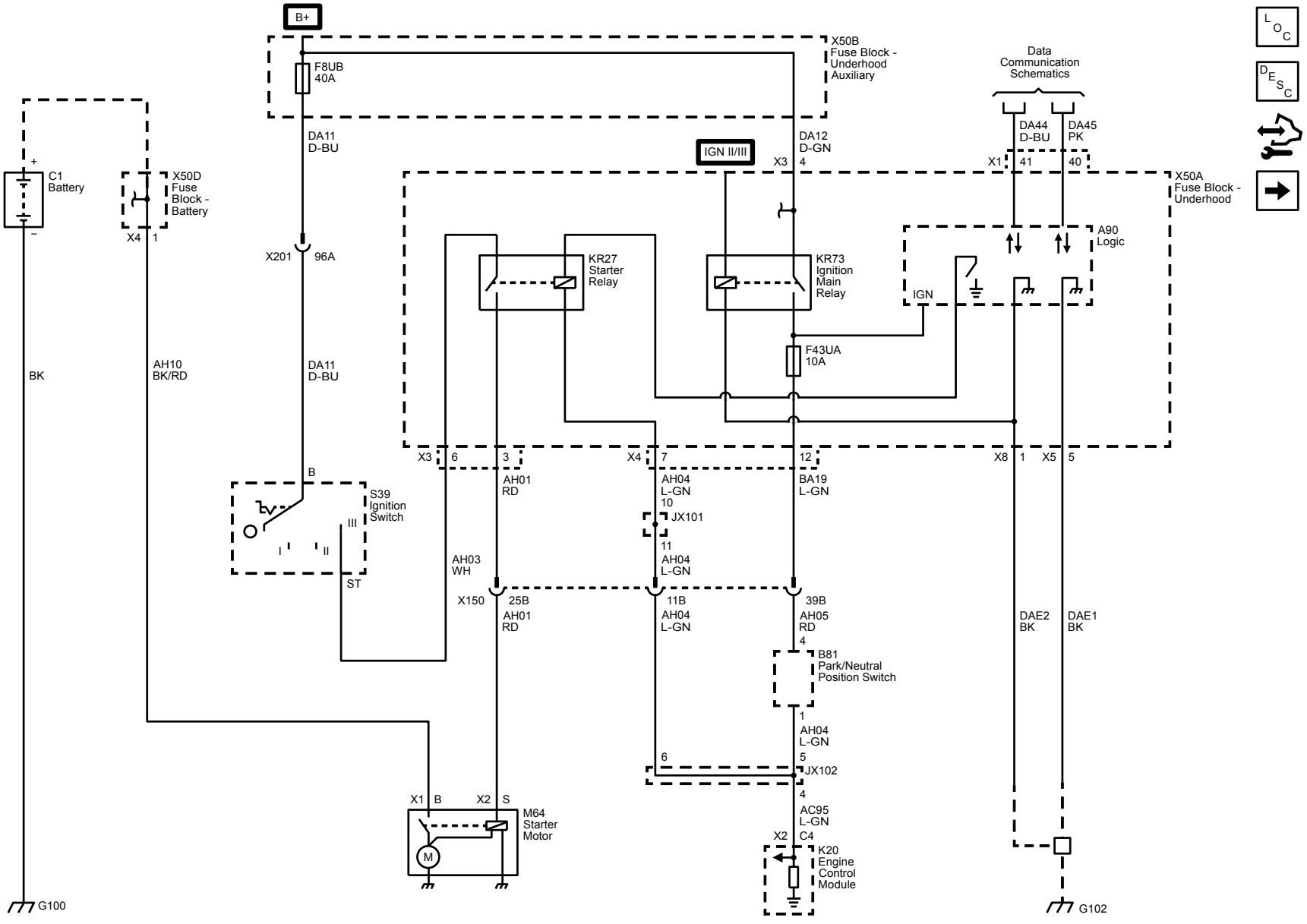
Engine/Propulsion

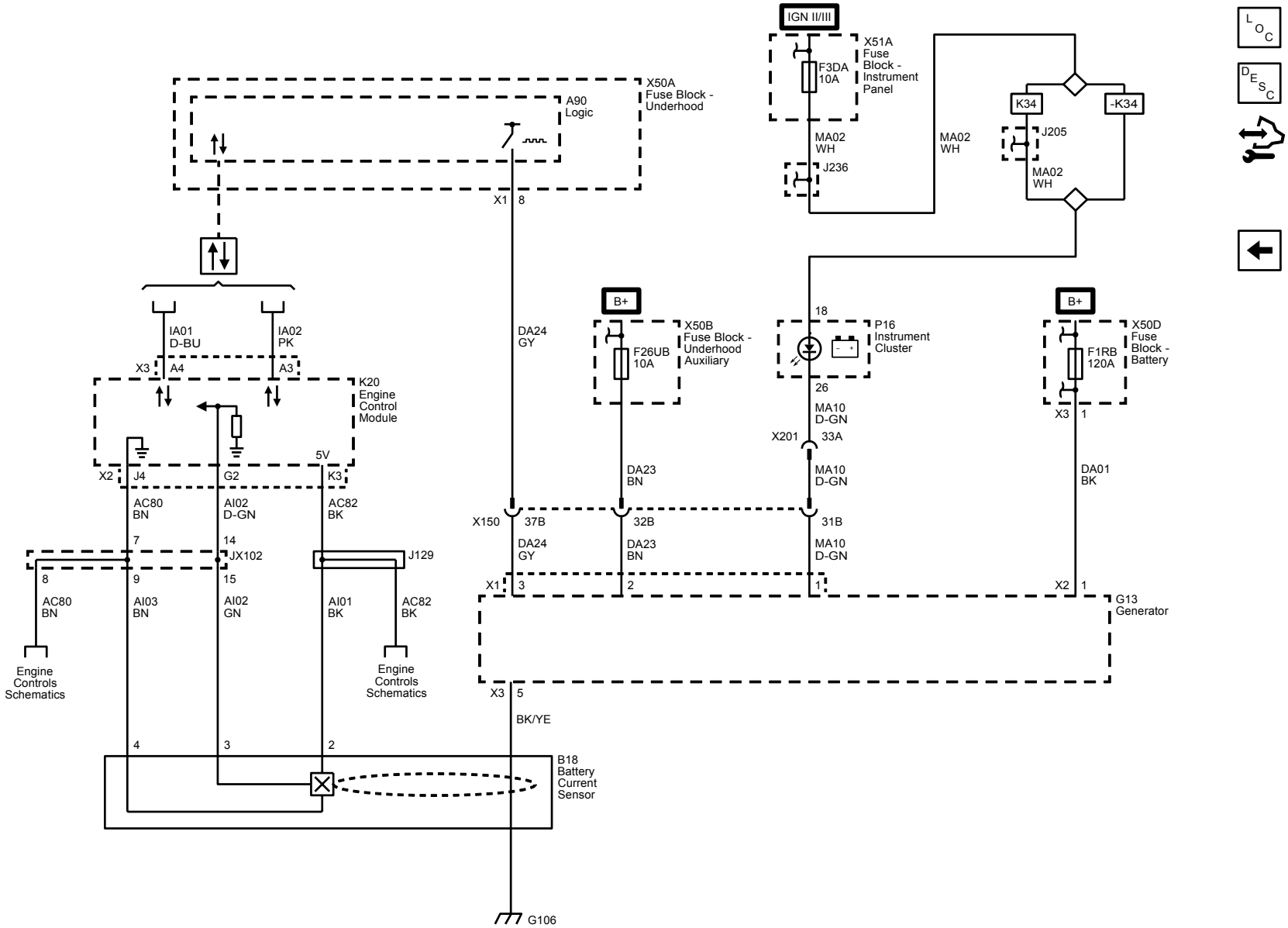
12 V Starting and Charging

Schematic and Routing Diagrams

Starting and Charging Schematics

Starting




IGN II/III
X51A
Fuse
Block -
Instrument
Panel
F3DA
10A
MA02
WH
J236
MA02
WH
K34
-K34
J205
MA02
WH
X50A
Fuse Block -
Underhood
A90
Logic
X1
8
DA24
GY
B+
X50B
Fuse Block -
Underhood
Auxiliary
F26UB
10A
18
P16
Instrument
Cluster
26
MA10
D-GN
X201
33A
B+
X50D
Fuse
Block -
Battery
F1RB
120A
X3
1
DA01
BK
IA01
D-BU
IA02
PK
X3
A4
A3
K20
Engine
Control
Module
X2
J4
G2
K3
5V
AC80
BN
AI02
D-GN
AC82
BK
7
14
JX102
J129
8
9
15
AC80
BN
AI03
BN
AI02
GN
AI01
BK
AC82
BK
Engine
Controls
Schematics
Engine
Controls
Schematics
DA23
BN
X150
37B
32B
31B
DA24
GY
DA23
BN
MA10
D-GN
X1
3
2
1
X2
1
G13
Generator
X3
5
BK/YE
4
3
2
B18
Battery
Current
Sensor
G106

Description and Operation

Charging System Description and Operation

Electrical Power Management Overview

The electrical power management system is designed to monitor and control the charging system and send diagnostic messages to alert the driver of possible problems with the battery and generator. This electrical power management system primarily utilizes existing on-board computer capability to maximize the effectiveness of the generator, to manage the load, improve battery state-of-charge and life, and minimize the system's impact on fuel economy. The electrical power management system performs 3 functions:

- It monitors the battery voltage and estimates the battery condition.
- It takes corrective actions by boosting idle speeds, and adjusting the regulated voltage.
- It performs diagnostics and driver notification.

The battery condition is estimated during ignition-off and during ignition-on. During ignition-off the state-of-charge of the battery is determined by measuring the open-circuit voltage. The state-of-charge is a function of the acid concentration and the internal resistance of the battery, and is estimated by reading the battery open circuit voltage when the battery has been at rest for several hours.

The state-of-charge can be used as a diagnostic tool to tell the customer or the dealer the condition of the battery. Throughout ignition-on, the algorithm continuously estimates state-of-charge based on adjusted net amp hours, battery capacity, initial state-of-charge, and temperature.

While running, the battery degree of discharge is primarily determined by a battery current sensor, which is integrated to obtain net amp hours.

In addition, the electrical power management function is designed to perform regulated voltage control to improve battery state-of-charge, battery life, and fuel economy. This is accomplished by using knowledge of the battery state-of-charge and temperature to set the charging voltage to an optimum battery voltage level for recharging without detriment to battery life.

The Charging System Description and Operation is divided into 3 sections. The first section describes the charging system components and their integration into the electrical power management. The second section describes charging system operation. The third section describes the instrument panel cluster operation of the charge indicator, driver information center messages, and voltmeter operation.

Charging System Components

Generator (IC Regulator)

The generator is a serviceable component. If there is a diagnosed failure of the generator it must be replaced as an assembly. The engine drive belt drives the generator. When the rotor is spun it induces an alternating current (AC) into the stator windings. The AC voltage is then sent through a series of diodes for rectification. The rectified voltage is converted into a direct current (DC) for use by the vehicles electrical system to maintain electrical loads and the battery charge. The voltage regulator is integral to the generator and controls the power generation voltage by the target power generation voltage based on the received PWM command signal. When there is no power generation command signal, the generator performs the normal power generation according to the characteristic of the IC regulator.

Combination meter (Charge Warning Lamp)

On the instrument cluster, a charge warning lamp illuminates if it detects any of the following symptoms while the generator is operating: excessive voltage is produced or no voltage is produced.

Battery current sensor

The battery current sensor is located on the negative battery cable terminal. The battery current sensor detects the charging/discharging current of the battery and converts this into a voltage signal. According to the current value detected, an appropriate voltage signal is sent to the ECM.

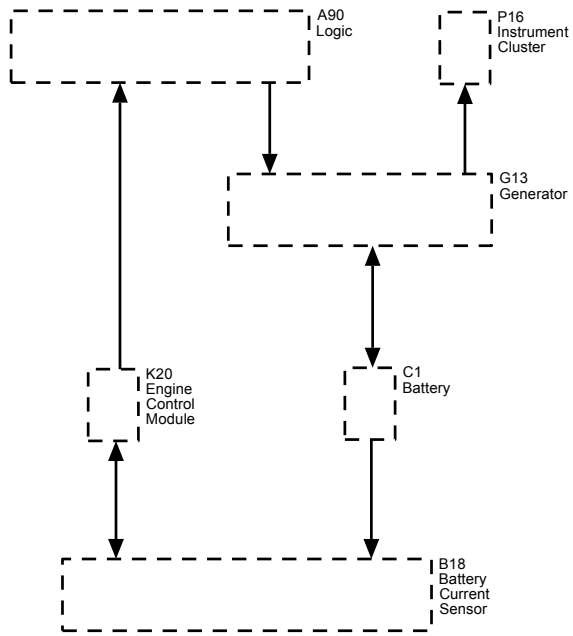
ECM

The charging/discharging current of the battery is detected by the battery current sensor. This information is used by the ECM to determine the battery condition. If the battery requires charging, the ECM requests more output through the power generation voltage variable control. The ECM sends the calculated value to the IPDM E/R through the power generator command.

Intelligent Power Distribution Module Engine Room (IPDM E/R)

The IPDM E/R uses the received power generation command value to send an appropriate pulse width modulated (PWM) command signal to the IC regulator.

Charging System Description and Operation



Charging System Operation

The purpose of the charging system is to maintain the battery charge and vehicle loads. The generator provides DC voltage to operate the vehicle's electrical system and to keep the battery charged. The voltage output is controlled by the IC regulator.

Starting System Description and Operation

The starter motors are non-repairable starter motors. They have pole pieces that are arranged around the armature. Both solenoid windings are energized. The pull-in winding circuit is completed to the ground through the starter motor. The windings work together magnetically to pull and hold in the plunger. The plunger moves the shift lever. This action causes the starter drive assembly to rotate on the armature shaft spline as it engages with the flywheel ring gear on the engine. Moving at the same time, the plunger also closes the solenoid switch contacts in the starter solenoid. Full battery voltage is applied directly to the starter motor and it cranks the engine.

As soon as the solenoid switch contacts close, current stops flowing thorough the pull-in winding because battery voltage is applied to both ends of the windings. The hold-in winding remains energized. Its magnetic field is strong enough to hold the plunger, shift lever, starter drive assembly, and solenoid switch contacts in place to continue cranking the engine. When the engine starts, pinion overrun protects the armature from excessive speed until the switch is opened.

When the ignition switch is released from the START position, the START relay opens and battery voltage is removed from the starter solenoid S terminal. Current flows from the motor contacts through both windings to the ground at the end of the hold-in winding. However, the direction of the current flow through the pull-in winding is now opposite the direction of the current flow when the winding was first energized.

The magnetic fields of the pull-in and hold-in windings now oppose one another. This action of the windings, along with the help of the return spring, causes the starter drive assembly to disengage and the solenoid switch contacts to open simultaneously. As soon as the contacts open, the starter circuit is turned off.

Starting System Components

Starter Motor

The starter motor is used to crank the engine. When the S terminal is supplied with electric power, the starter motor plunger closes and the motor is supplied with battery power. The starter motor is grounded to the cylinder block. With power and ground supplied, the starter motor operates.

Transmission Range Switch

Transmission range switch supplies power to the starter relay inside the IPDM E/R when the shift selector is placed in the P or N position.

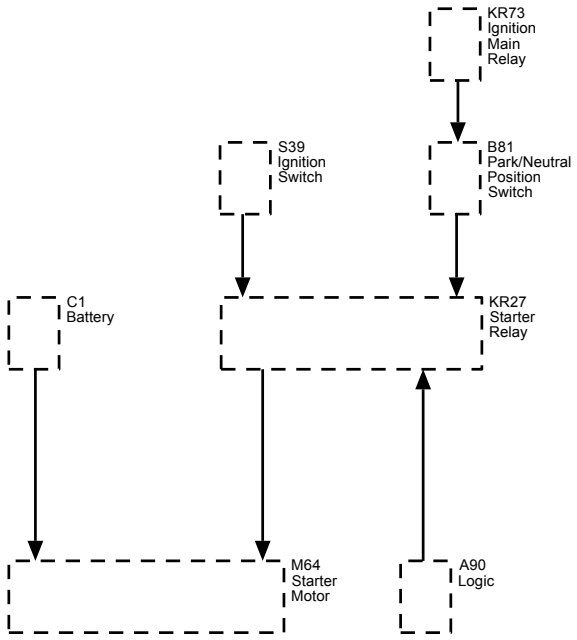
Engine Control Module (ECM)

ECM controls the starter relay inside IPDM E/R.

Intelligent Power Distribution Module Engine Room (IPDM E/R)

When the ignition switch is in the start position the CPU inside IPDM E/R is used to operate the starter relay.

Starting System Description and Operation



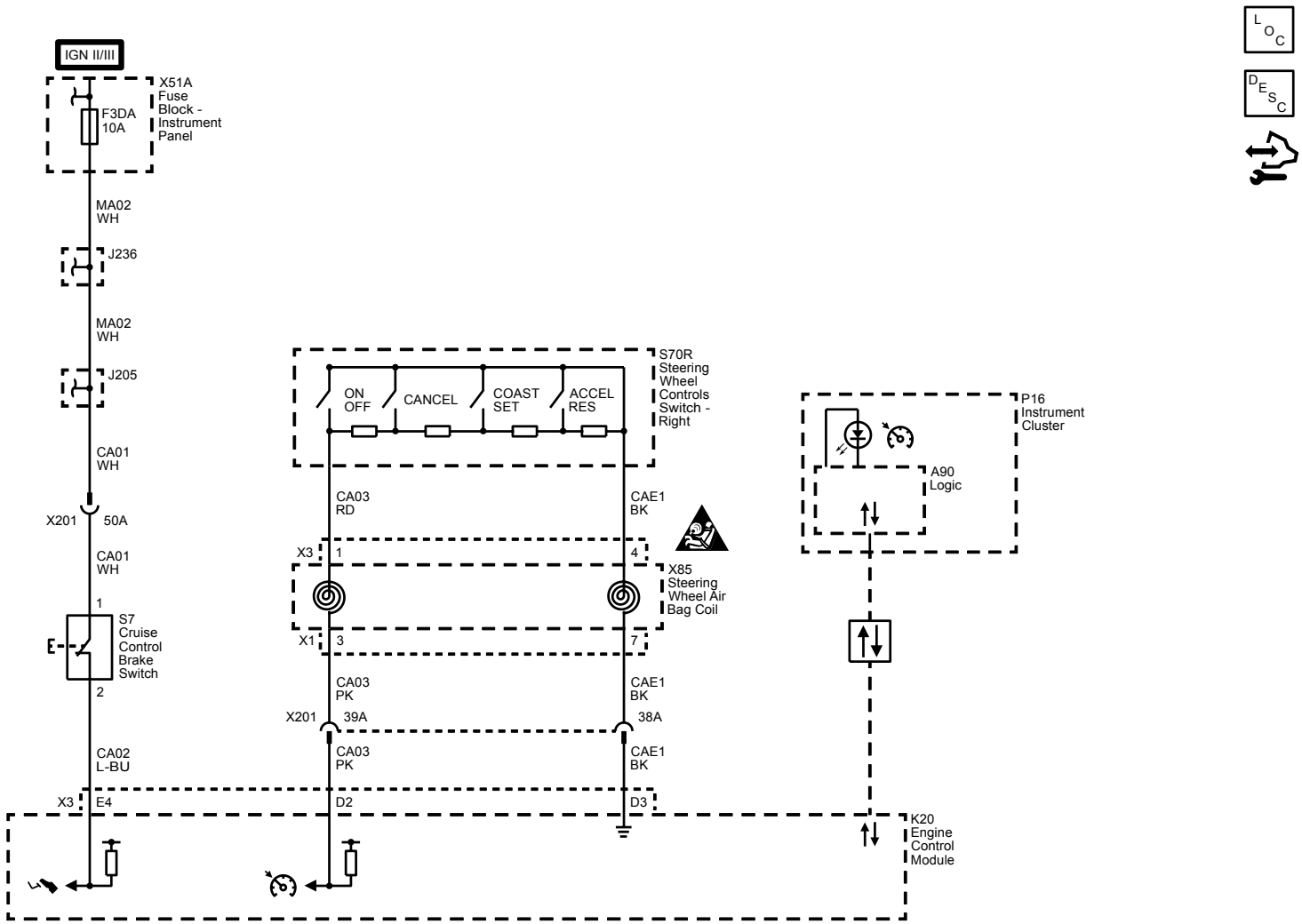
Engine/Propulsion

Cruise Control

Schematic and Routing Diagrams

Cruise Control Schematics

Cruise Control



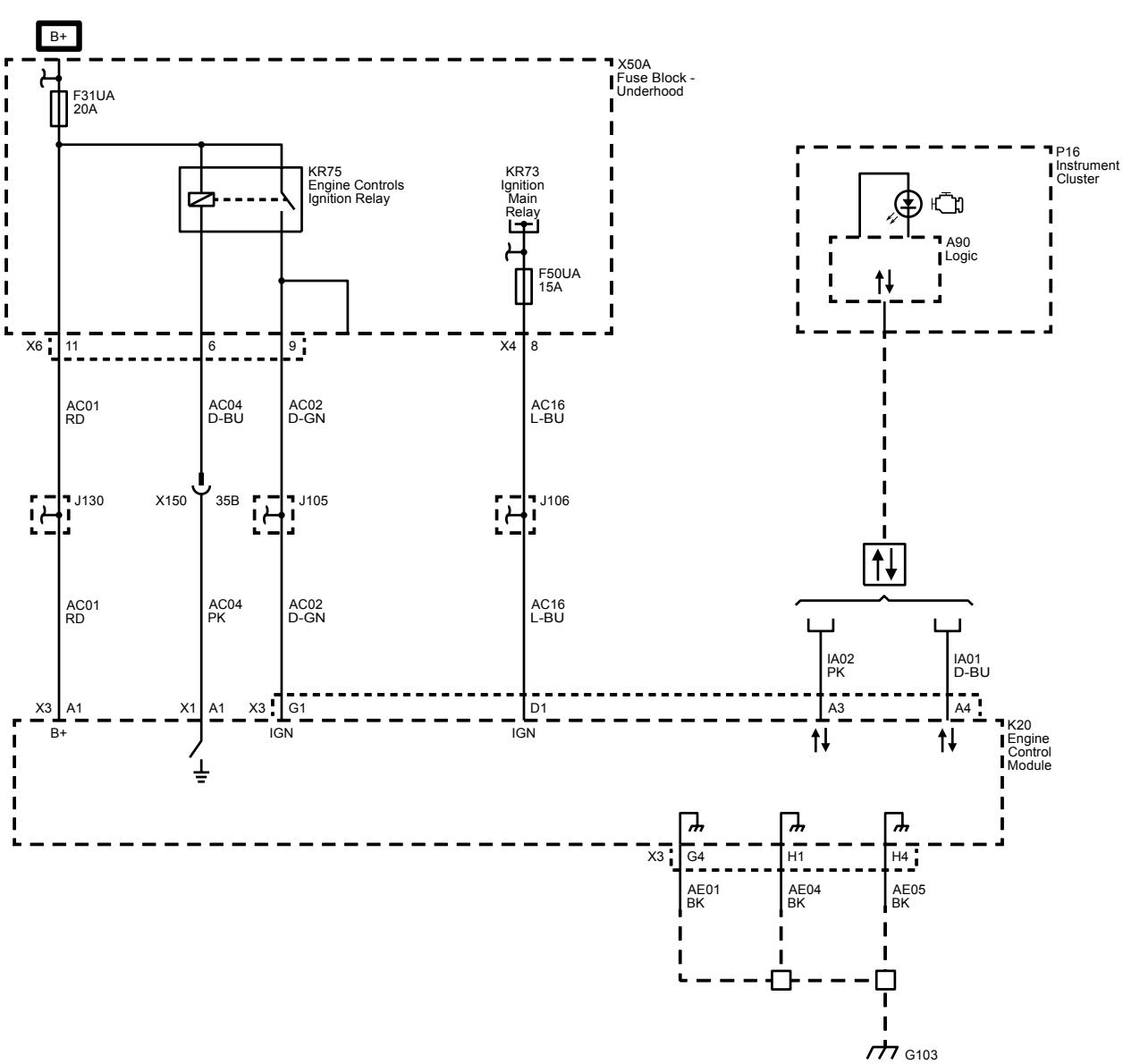
Engine/Propulsion

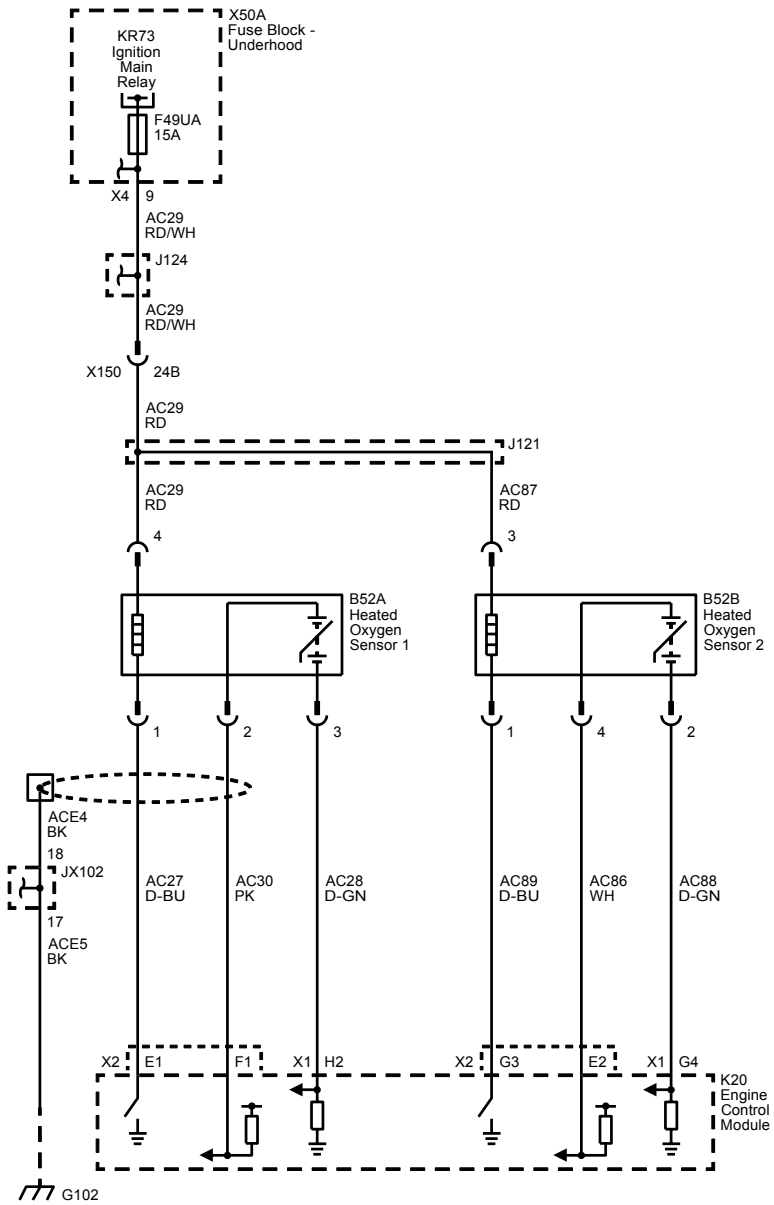
Engine Controls and Fuel - 2.0L

Schematic and Routing Diagrams

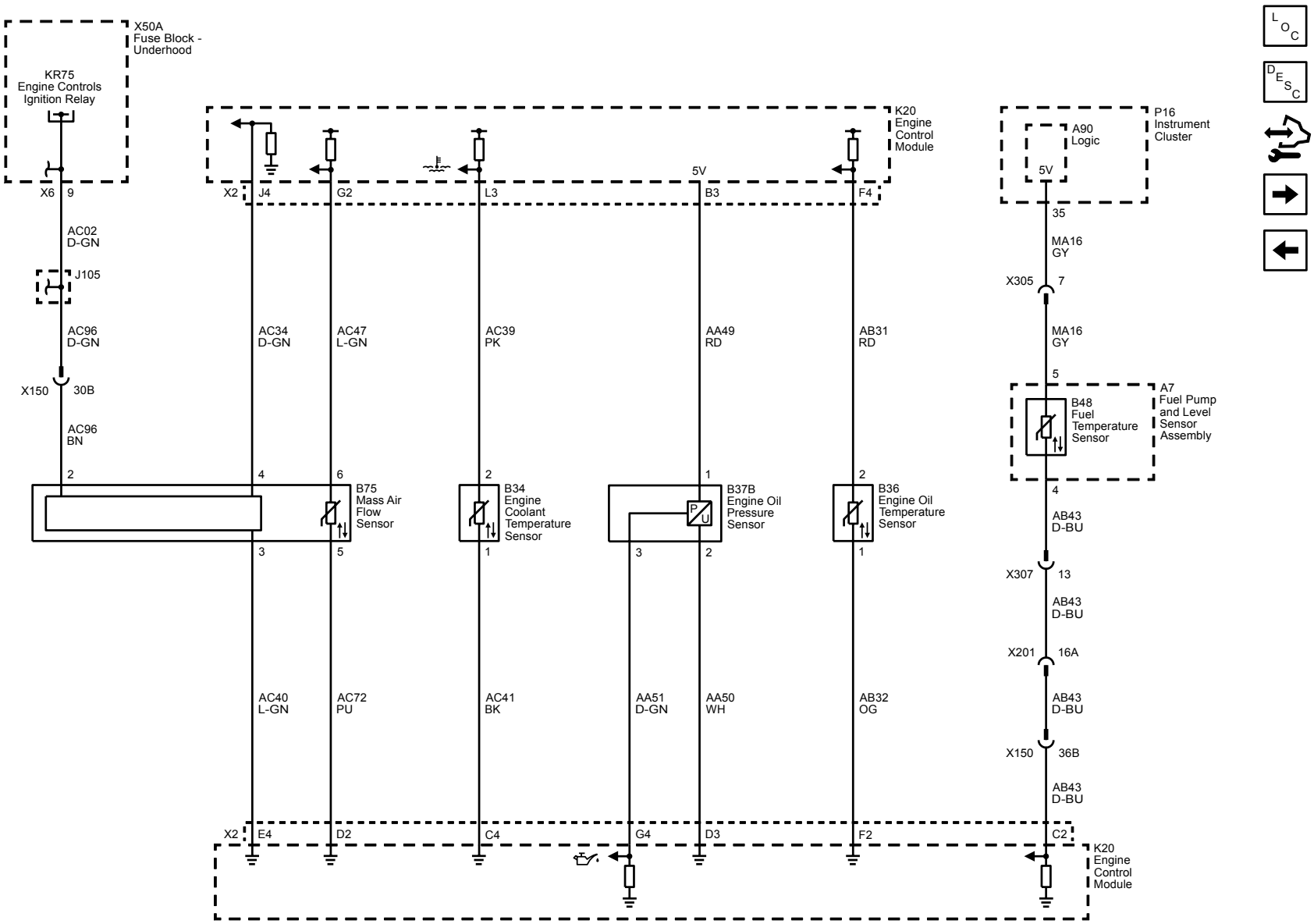
Engine Controls Schematics

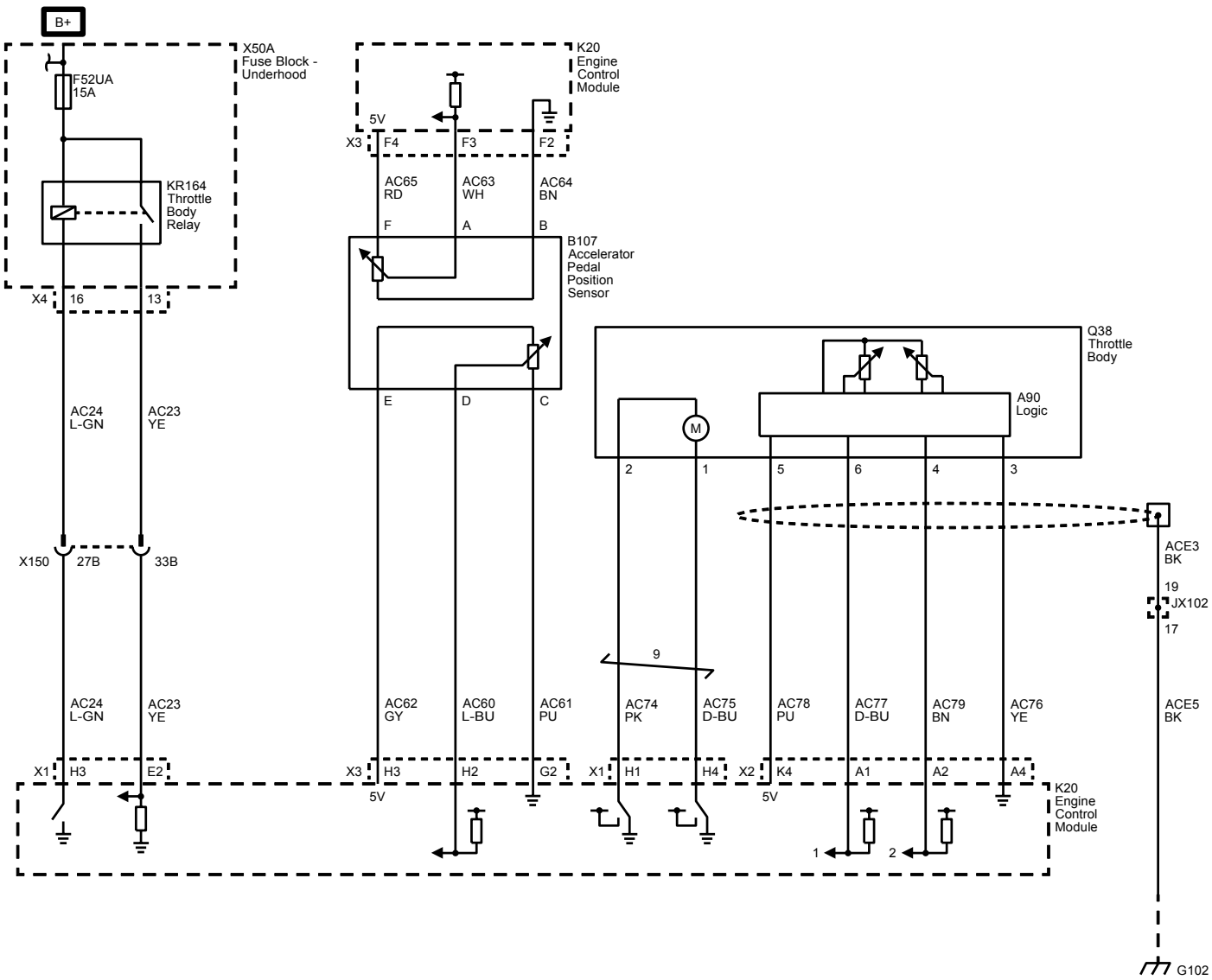
Power, Ground, Serial Data and MIL

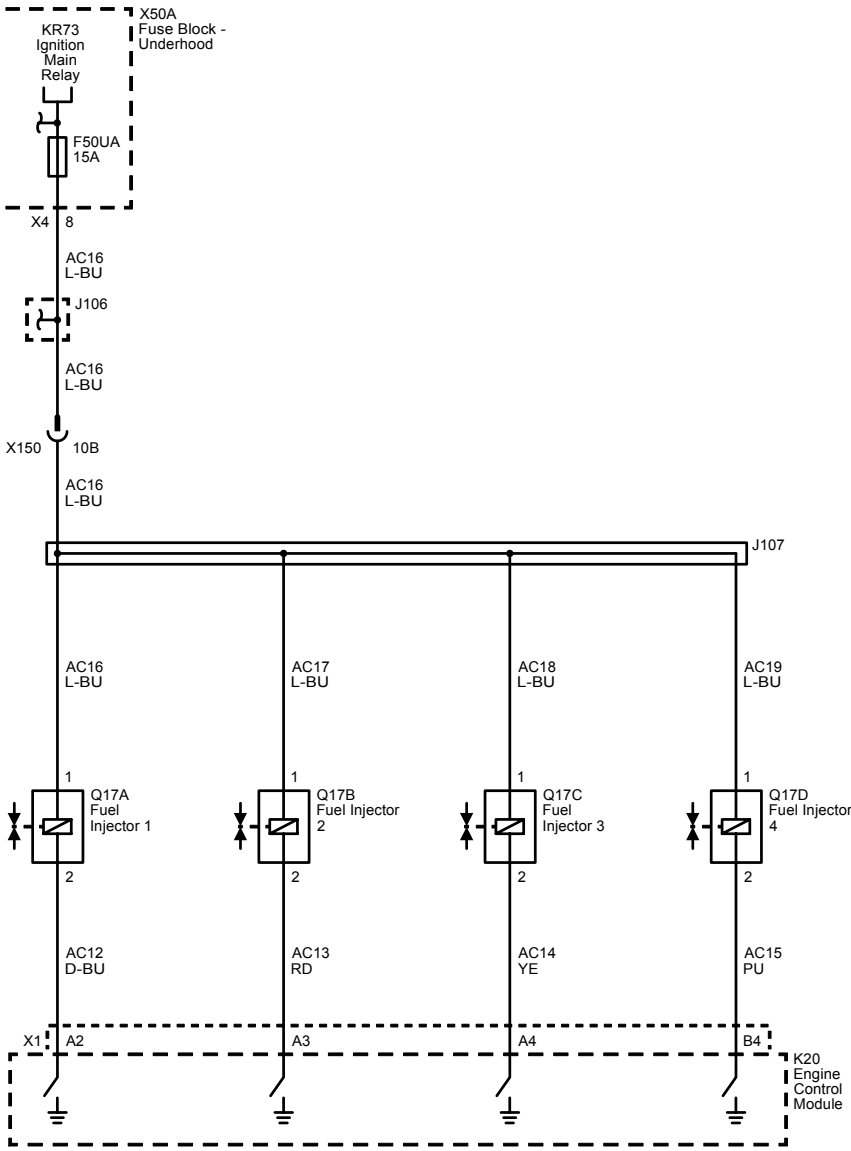


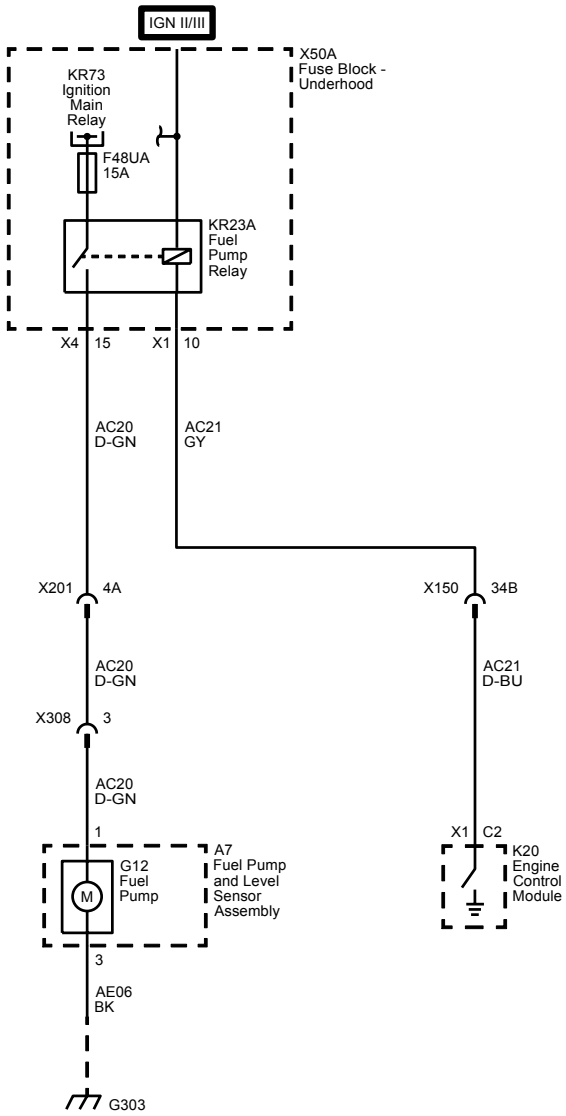

X50A
Fuse Block - Underhood
KR73
Ignition Main Relay
F49UA
15A
X4
9
AC29
RD/WH
J124
AC29
RD/WH
X150
24B
AC29
RD
J121
AC29
RD
AC87
RD
4
3
B52A
Heated Oxygen Sensor 1
B52B
Heated Oxygen Sensor 2
1
2
3
1
4
2
ACE4
BK
18
JX102
17
ACE5
BK
AC27
D-BU
AC30
PK
AC28
D-GN
AC89
D-BU
AC86
WH
AC88
D-GN
X2
E1
F1
X1
H2
X2
G3
E2
X1
G4
K20
Engine Control Module
G102

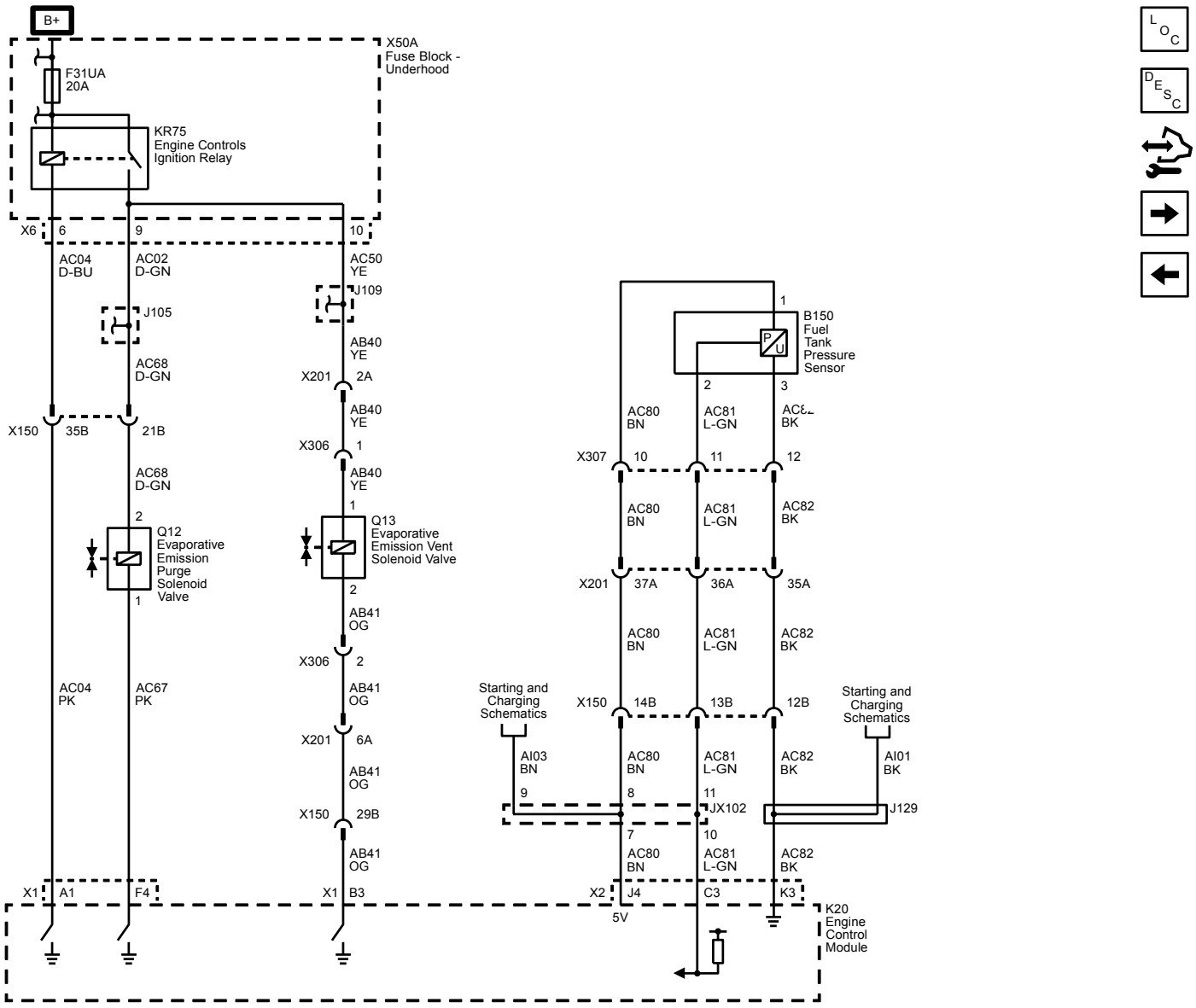
Engine Data Sensors - Pressure and Temperature




B+
X50A
Fuse Block -
Underhood
F52UA
15A
KR164
Throttle
Body
Relay
X4
16
13
K20
Engine
Control
Module
5V
X3
F4
F3
F2
AC65
RD
AC63
WH
AC64
BN
F
A
B
B107
Accelerator
Pedal
Position
Sensor
E
D
C
Q38
Throttle
Body
M
A90
Logic
2
1
5
6
4
3
ACE3
BK
19
JX102
17
ACE5
BK
AC24
L-GN
AC23
YE
X150
27B
33B
9
AC62
GY
AC60
L-BU
AC61
PU
AC74
PK
AC75
D-BU
AC78
PU
AC77
D-BU
AC79
BN
AC76
YE
X1
H3
E2
X3
H3
H2
G2
5V
X1
H1
H4
X2
K4
A1
A2
A4
5V
K20
Engine
Control
Module
1
2
G102


KR73
Ignition
Main
Relay
X50A
Fuse Block -
Underhood
F50UA
15A
X4
8
AC16
L-BU
J106
AC16
L-BU
X150
10B
AC16
L-BU
J107
AC16
L-BU
AC17
L-BU
AC18
L-BU
AC19
L-BU
1
Q17A
Fuel
Injector 1
2
1
Q17B
Fuel Injector
2
2
1
Q17C
Fuel
Injector 3
2
1
Q17D
Fuel Injector
4
2
AC12
D-BU
AC13
RD
AC14
YE
AC15
PU
X1
A2
A3
A4
B4
K20
Engine
Control
Module


IGN II/III
X50A
Fuse Block -
Underhood
KR73
Ignition
Main
Relay
F48UA
15A
KR23A
Fuel
Pump
Relay
X4 15
X1 10
AC20
D-GN
AC21
GY
X201 4A
X150 34B
AC20
D-GN
AC21
D-BU
X308 3
AC20
D-GN
1
A7
Fuel Pump
and Level
Sensor
Assembly
G12
Fuel
Pump
M
X1 C2
K20
Engine
Control
Module
3
AE06
BK
G303


B+
X50A
Fuse Block - Underhood
F31UA
20A
KR75
Engine Controls
Ignition Relay
X6
6
9
10
AC04
D-BU
AC02
D-GN
AC50
YE
J109
J105
AB40
YE
AC68
D-GN
X201
2A
AB40
YE
X150
35B
21B
X306
1
AB40
YE
AC68
D-GN
1
2
Q12
Evaporative
Emission
Purge
Solenoid
Valve
Q13
Evaporative
Emission Vent
Solenoid Valve
1
2
AB41
OG
X306
2
AC04
PK
AC67
PK
AB41
OG
X201
6A
AB41
OG
X150
29B
AB41
OG
X1
A1
F4
X1
B3
1
B150
Fuel
Tank
Pressure
Sensor
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3
AC80
BN
AC81
L-GN
AC82
BK
X307
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11
12
AC80
BN
AC81
L-GN
AC82
BK
X201
37A
36A
35A
AC80
BN
AC81
L-GN
AC82
BK
Starting and
Charging
Schematics
X150
14B
13B
12B
Starting and
Charging
Schematics
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AC80
BN
AC81
L-GN
AC82
BK
AI01
BK
9
8
11
JX102
J129
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AC82
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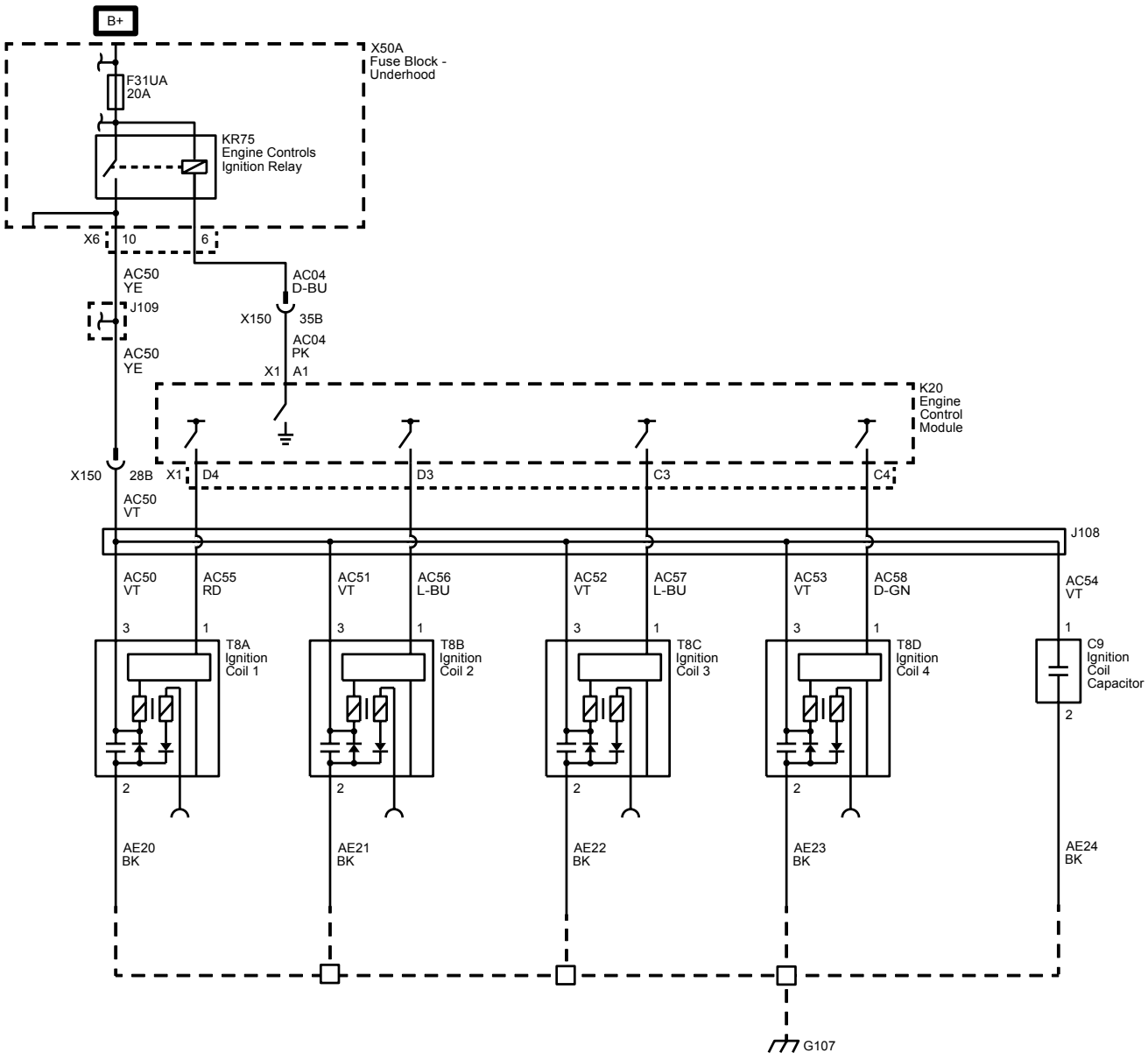
X2
J4
C3
K3
5V
K20
Engine
Control
Module


B+
X50A
Fuse Block -
Underhood
F31UA
20A
KR75
Engine Controls
Ignition Relay
X6
10
6
AC50
YE
J109
AC50
YE
AC04
D-BU
X150
35B
AC04
PK
X1
A1
K20
Engine
Control
Module
X150
28B
X1
D4
D3
C3
C4
AC50
VT
J108
AC50
VT
AC55
RD
AC51
VT
AC56
L-BU
AC52
VT
AC57
L-BU
AC53
VT
AC58
D-GN
AC54
VT
3
1
T8A
Ignition
Coil 1
T8B
Ignition
Coil 2
T8C
Ignition
Coil 3
T8D
Ignition
Coil 4
C9
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Coil
Capacitor
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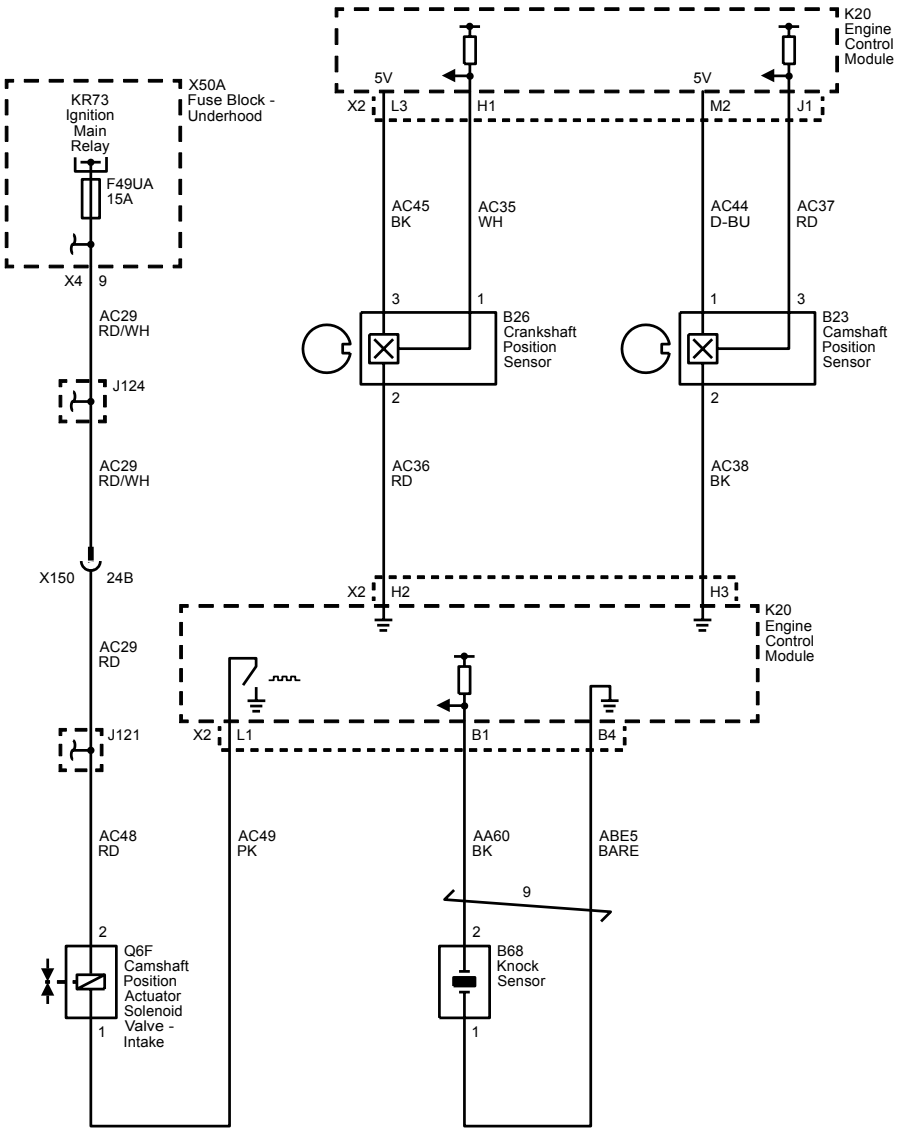
BK
AE21
BK
AE22
BK
AE23
BK
AE24
BK
G107


K20
Engine
Control
Module
5V
5V
X2
L3
H1
M2
J1
AC45
BK
AC35
WH
AC44
D-BU
AC37
RD
KR73
Ignition
Main
Relay
X50A
Fuse Block -
Underhood
F49UA
15A
X4
9
3
1
1
3
B26
Crankshaft
Position
Sensor
B23
Camshaft
Position
Sensor
2
2
AC29
RD/WH
J124
AC36
RD
AC38
BK
AC29
RD/WH
X150
24B
X2
H2
H3
K20
Engine
Control
Module
AC29
RD
J121
X2
L1
B1
B4
AC48
RD
AC49
PK
AA60
BK
ABE5
BARE
9
2
2
Q6F
Camshaft
Position
Actuator
Solenoid
Valve -
Intake
B68
Knock
Sensor
1
1

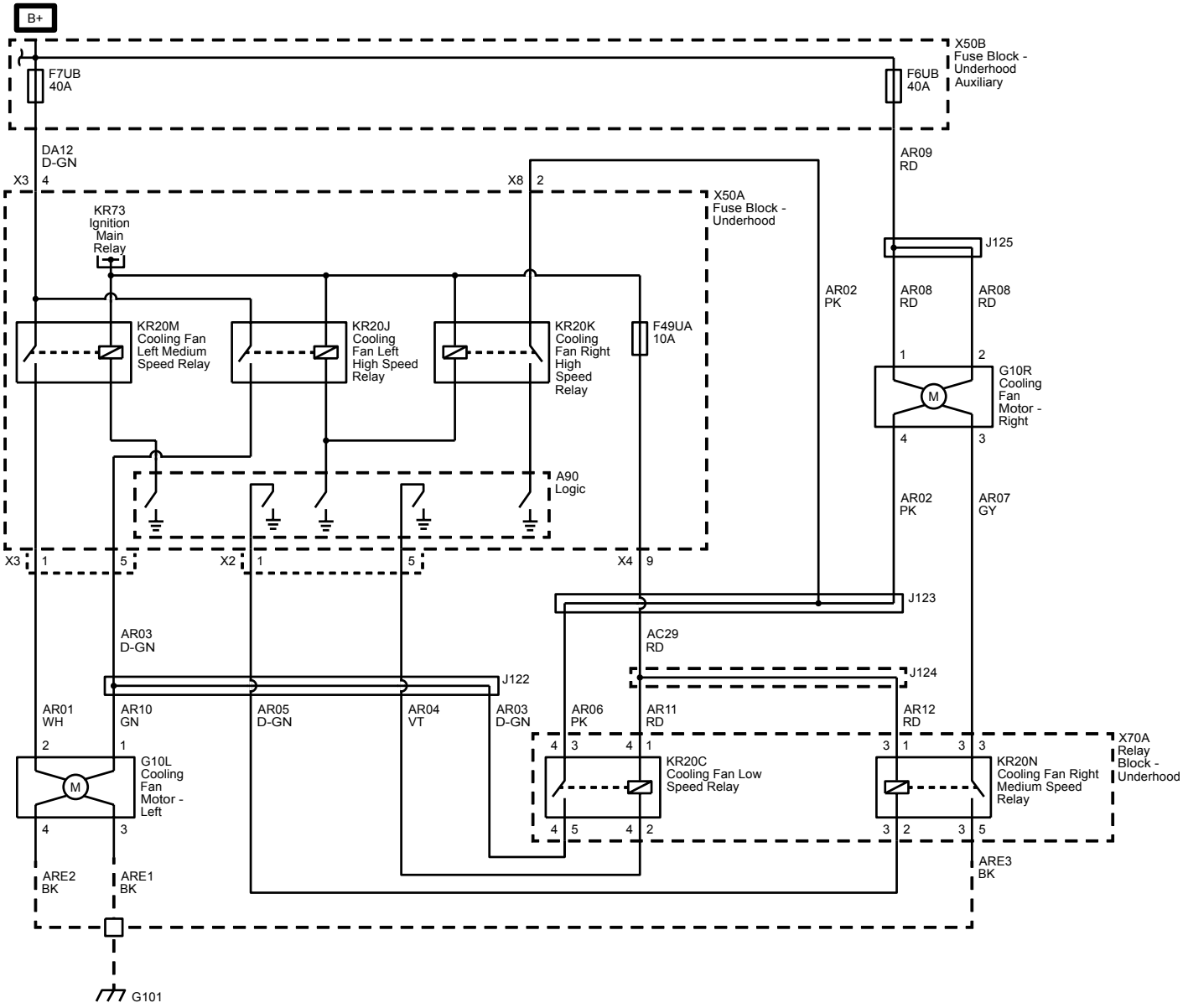
Engine/Propulsion

Engine Heating and Cooling

Schematic and Routing Diagrams

Engine Heating/Cooling Schematics

Cooling Fans

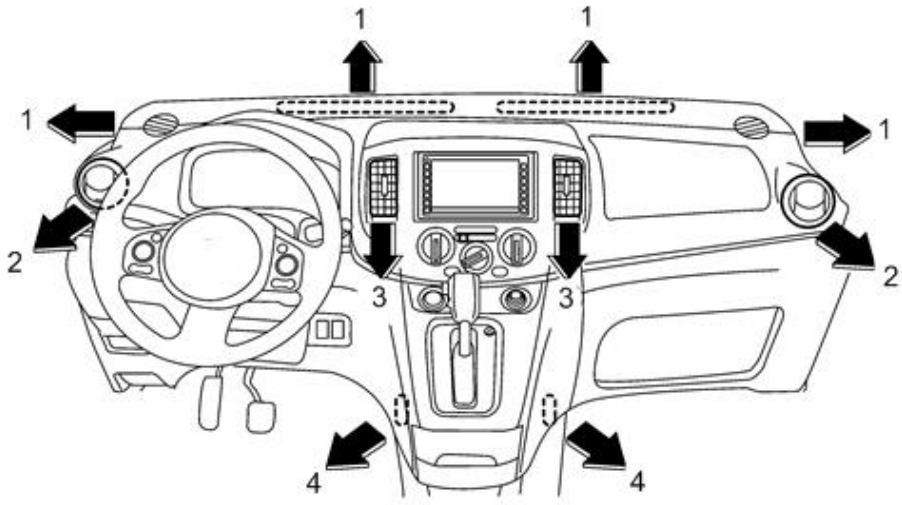


Heating, Ventilation, and Air Conditioning

Description and Operation

Heating and Air Conditioning System Description and Operation

Ventilation System Description



		2	3	
		2	3	4
				4
	1			4
	1			

1. Windshield Defroster Duct
2. Instrument Panel Outer Air Outlet Duct
3. Instrument Panel Center Air Outlet Duct
4. Floor Air Outlet Duct

Engine Coolant

Engine coolant is the key element of the heating system. The engine thermostat controls the normal engine operating coolant temperature. Coolant pumped out of the engine enters the heater core through the inlet heater hose. The air flowing through the HVAC module absorbs the heat of the coolant flowing through the heater core. The coolant then exits the heater core through the heater outlet hose and returns back to the engine block.

A/C Cycle

Refrigerant is the key element in an air conditioning system. R-134a is a very low temperature gas that can transfer the undesirable heat from the passenger compartment to the outside air.

The A/C compressor is belt driven and operates when the magnetic clutch is engaged. The compressor builds pressure in the A/C system. Compressing the refrigerant also adds heat to the refrigerant. The refrigerant is discharged from the compressor through the discharge hose, and forced to flow to the condenser and then through the balance of the A/C system. The A/C system is mechanically protected with the use of a high pressure relief valve. If the high pressure A/C switch were to fail or if the refrigerant system becomes restricted and refrigerant pressure continued to rise, the high pressure relief will pop open and release refrigerant from the system.

Compressed refrigerant enters the condenser in a high temperature, high pressure vapor state. As the refrigerant flows through the condenser, the heat of the refrigerant is transferred to the ambient air passing through the condenser. Cooling the refrigerant causes the refrigerant to condense and change from a vapor to a liquid state.

The condenser is located in front of the radiator for maximum heat transfer. The condenser is made of aluminum tubing and aluminum cooling fins, which allows rapid heat transfer for the refrigerant. The semi-cooled liquid refrigerant exits the condenser and flows through the liquid line, to the thermal expansion valve.

The thermal expansion valve is located at the evaporator inlet. The thermal expansion valve is the dividing point for the high and the low pressure sides of the A/C system. As the refrigerant passes through the thermal expansion valve, the refrigerant is lowered. Due to the pressure differential on the liquid refrigerant, the refrigerant will begin to boil at the thermal expansion valve. The thermal expansion valve also meters the amount of liquid refrigerant that can flow into the evaporator.

Refrigerant exiting the thermal expansion valve flows into the evaporator core in a low pressure, liquid state. Ambient air is drawn through the HVAC module and passes through the evaporator core. Warm and moist air will cause the liquid refrigerant to boil inside the evaporator core.

The boiling refrigerant absorbs heat from the ambient air and draws moisture onto the evaporator. The refrigerant exits the evaporator through the suction line and back to the compressor, in a vapor state. This completes the A/C cycle of heat removal. At the compressor, the refrigerant is compressed again and the cycle of heat removal is repeated.

The conditioned air is distributed through the HVAC module for passenger comfort. The moisture removed from the passenger compartment will also change form, or condense, and is discharged from the HVAC module as water.

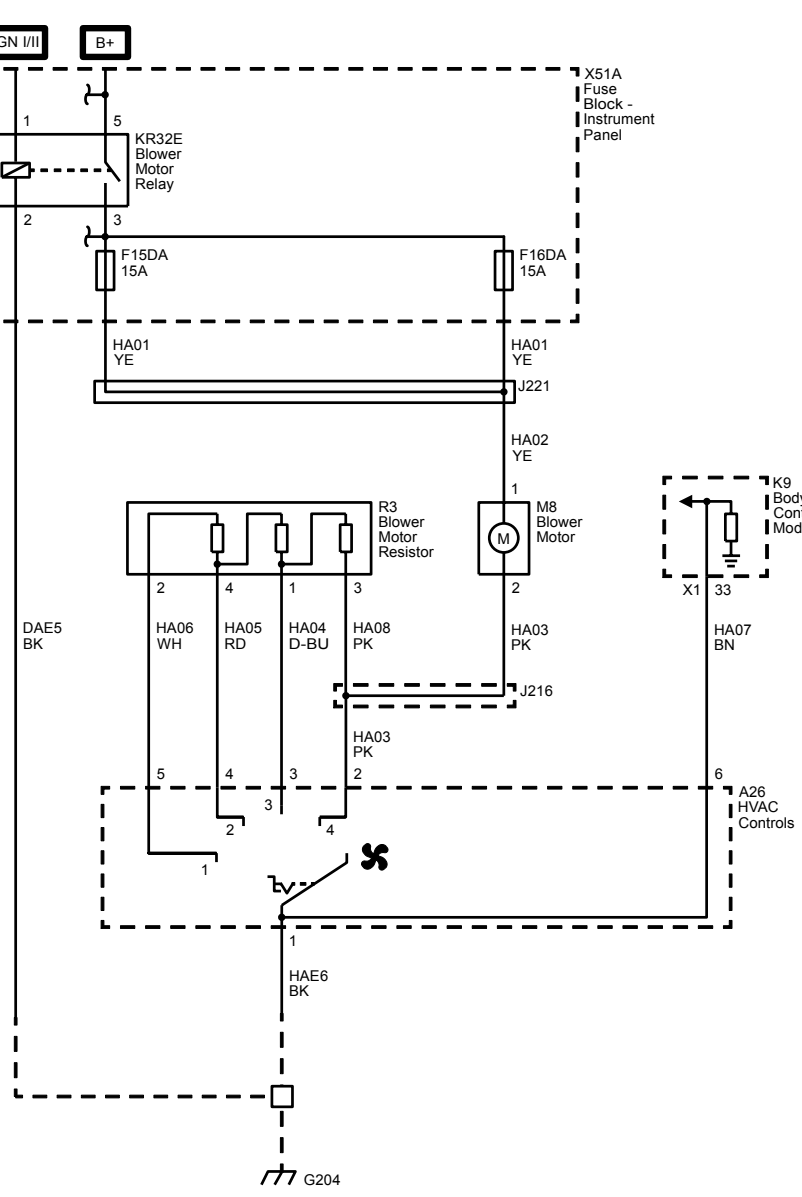
HVAC

HVAC - Manual

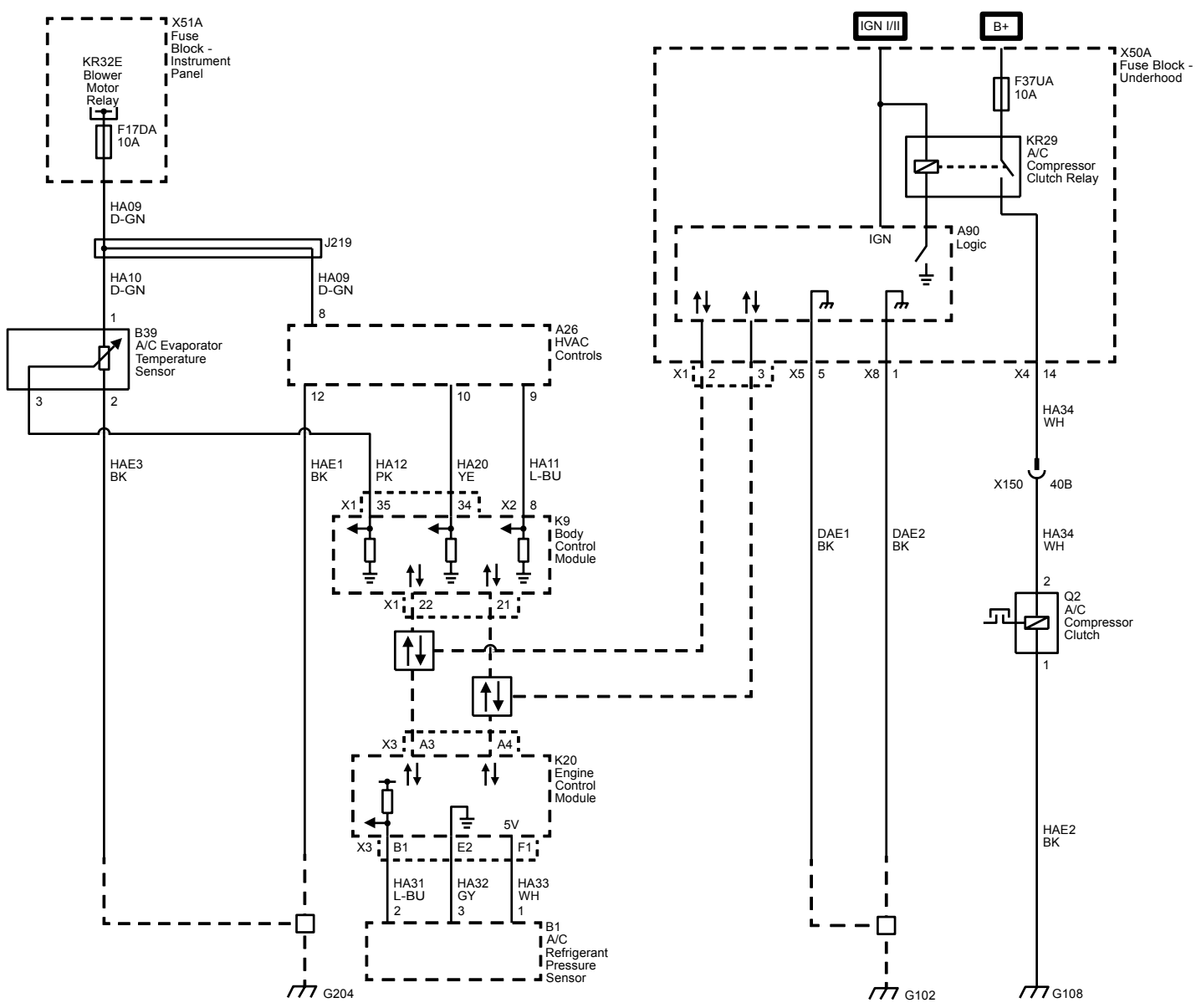
Schematic and Routing Diagrams

HVAC Schematics

Blower Controls



Compressor Controls



Description and Operation

Manual HVAC Description and Operation

The heater system is designed to provide heating, ventilation, windshield defrosting, side window defogging, and on some vehicles, heating directly to the rear seat area.

The heater and fan assembly blower regulates the airflow from the air inlet for further processing and distribution.

The heater core transfers the heat from the engine coolant to the inlet air.

The temperature door regulates the amount of the air that passes through the heater core. The temperature door also controls the temperature of the air by controlling the mix of the heated air and the ambient air.

The mode door regulates the flow and the distribution of the processed air to the heater ducts and to the defroster ducts.

Console-Mounted Heating and Ventilation Panel

Rotary Temperature Control Knob

- Actuates by cable
- Raises the temperature of the air entering the vehicle by rotation toward the right, or the red portion of the knob

Rotary Blower Control Knob

- Note there may be up to a 5 second delay when changing the blower motor speed from the off position to any of the on position speed settings. This is normal operation and due to the blower motor performing critical functions prior to operation.
- Turns ON to operate the blower motor at 4 speeds through a series of resistors.
- Turns OFF to stop the blower
- Operates completely independently both from the mode control that regulates the defroster door and from the temperature control knob
- Changes the fan speed in any mode and at any temperature setting

Rotary Mode Control Knob

- Actuates by cable
- Regulates the air distribution between the windshield, the instrument panel, and the floor vents

Rear Window Defogger Push Knob, if the Vehicle is Equipped with Rear Window Defogger

- Controls the rear window defogger
- Turns ON the rear window defogger when the push knob is pressed and the indicator lamp is illuminated

A/C Push Knob

- Controls the air conditioning (A/C)
- Turns the A/C ON when the push knob is down—However, if the blower control knob is OFF, the A/C system is OFF, regardless of the position of the A/C knob.

Fresh Air Control Level

- Operates by cable
- Switches between recirculating passenger compartment air and bringing outside air into the passenger compartment
- Draws in outside air when the lever is moved to the left
- Recirculates inside air when the lever is moved to the right

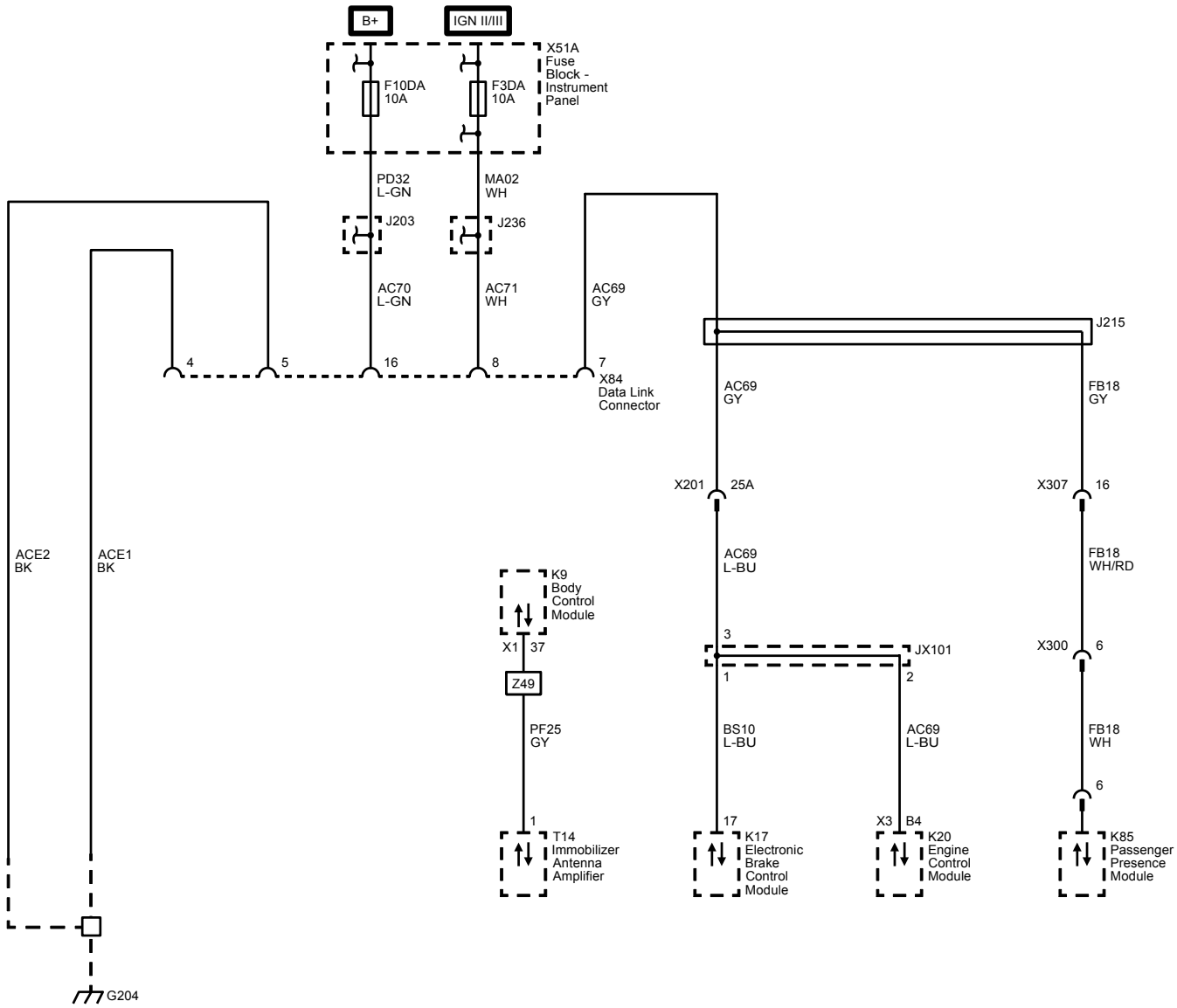
Power and Signal Distribution

Data Communications

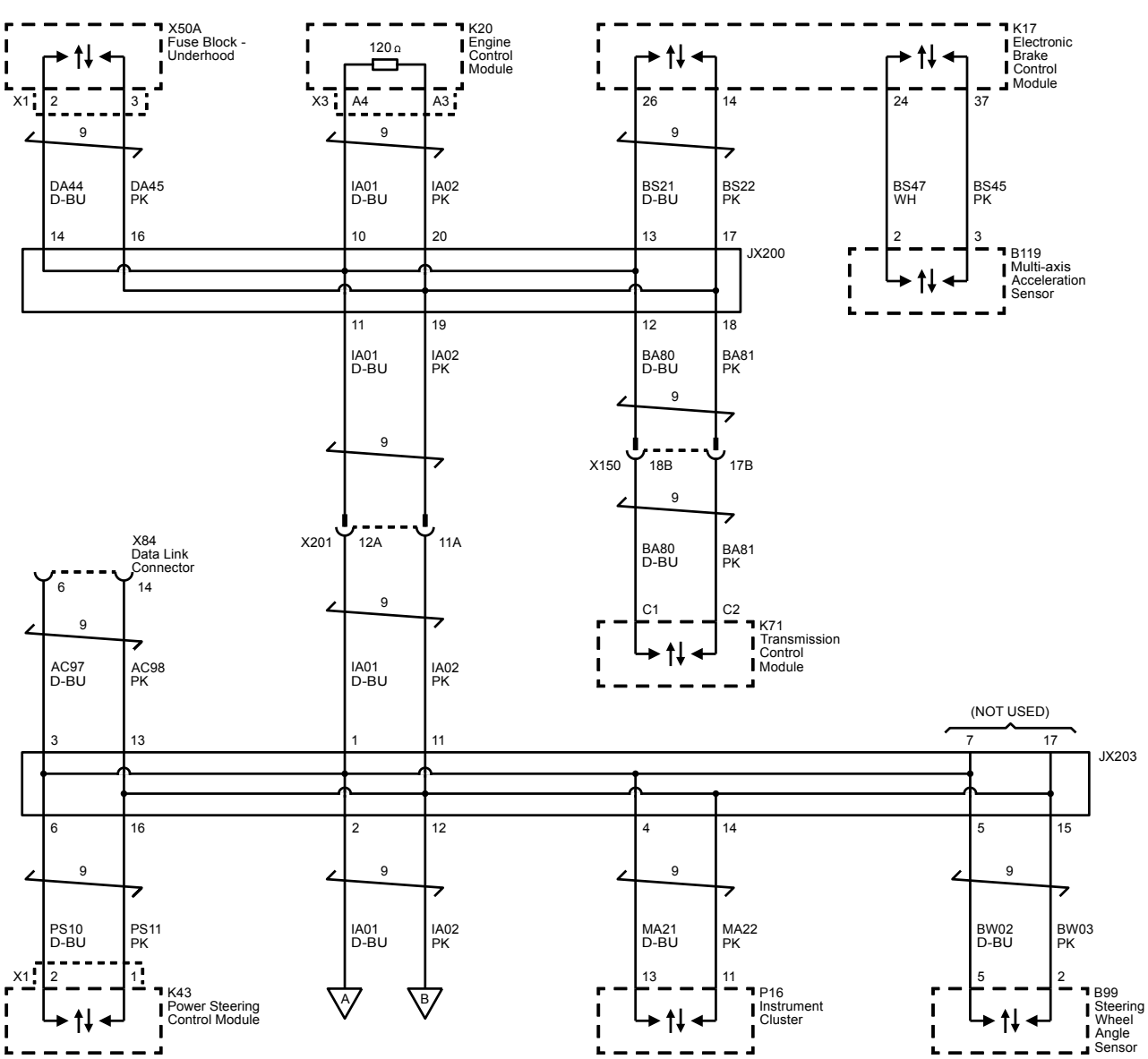
Schematic and Routing Diagrams

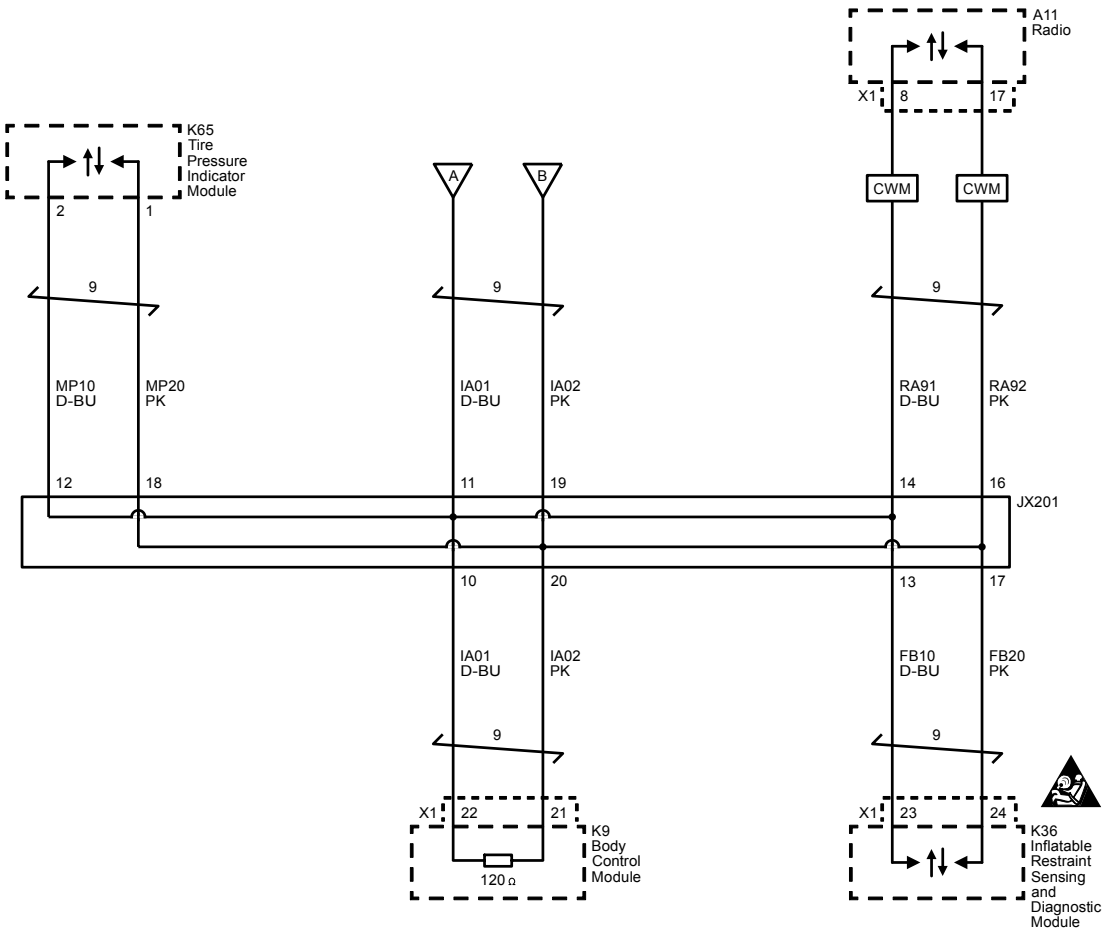
Data Communication Schematics

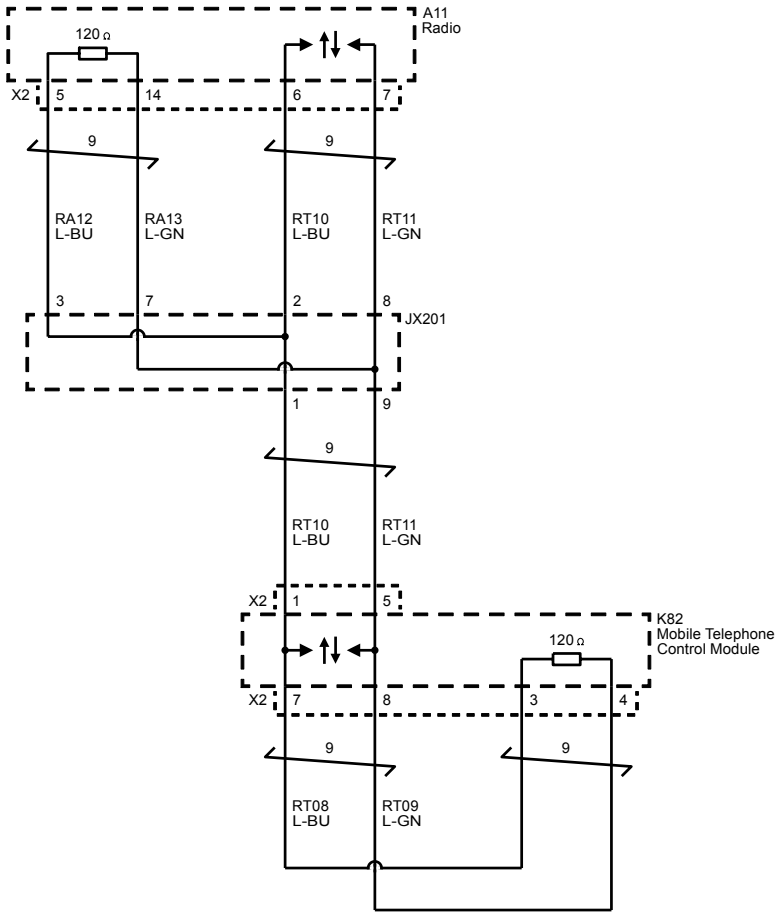
Power, Ground, ISO Bus, and LIN Busses



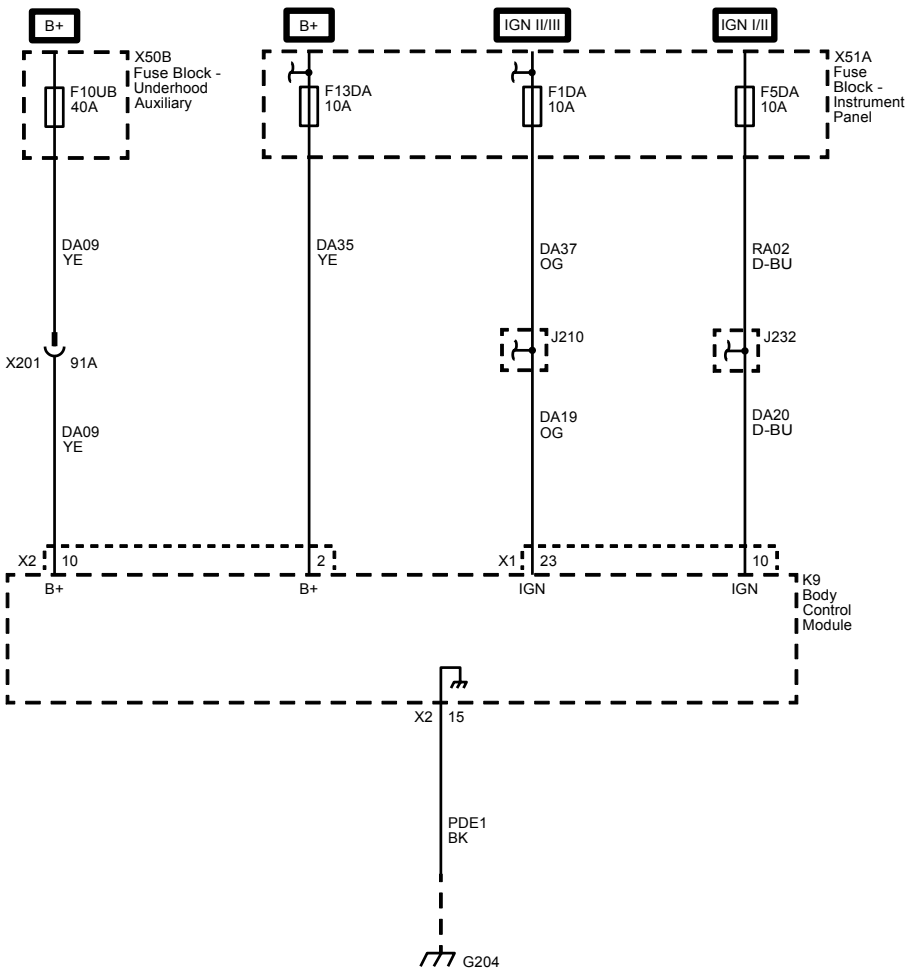
High Speed CAN (1 of 2)



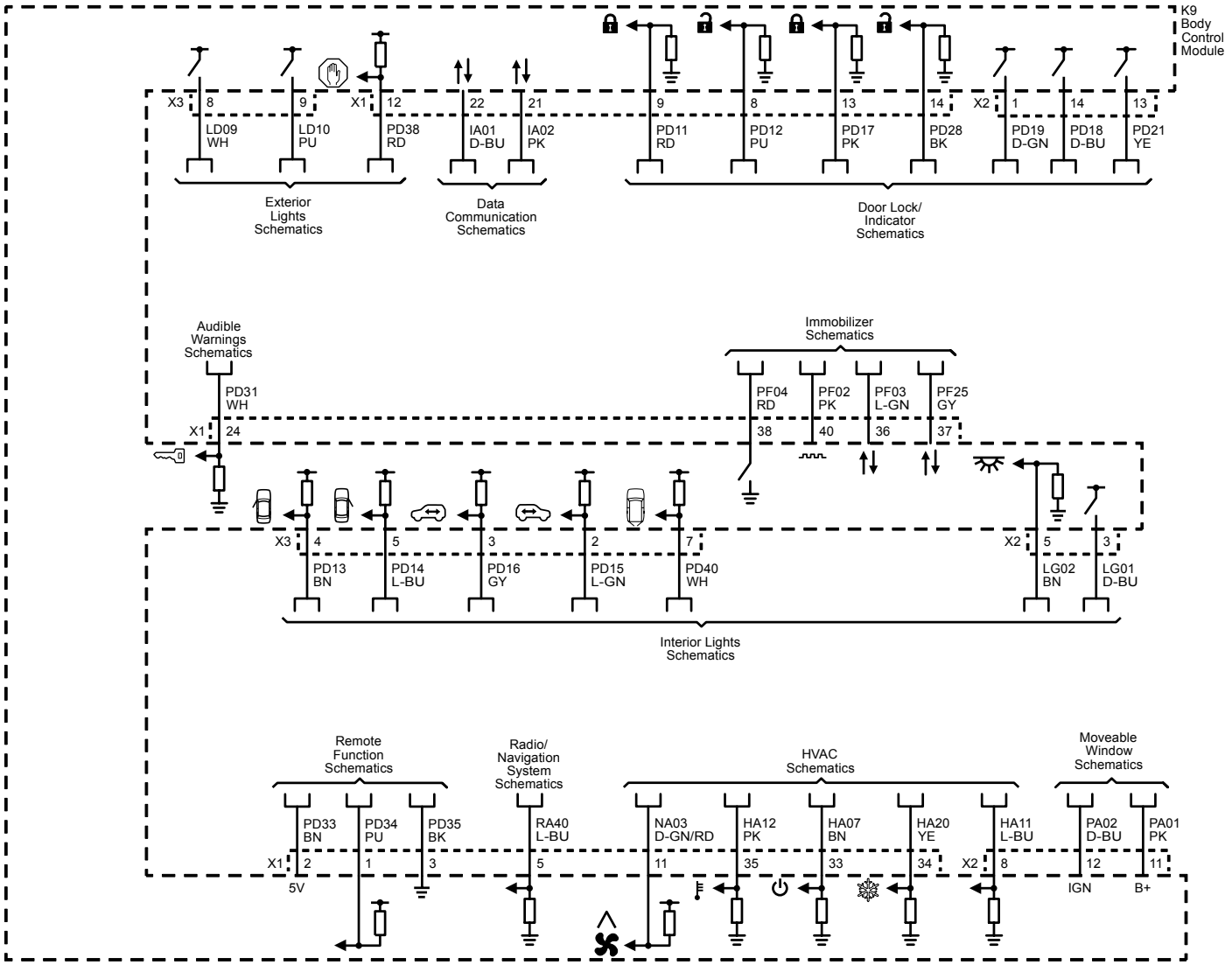

K65
Tire
Pressure
Indicator
Module
2
1
9
MP10
D-BU
MP20
PK
12
18
A
B
9
IA01
D-BU
IA02
PK
11
19
A11
Radio
X1
8
17
CWM
CWM
9
RA91
D-BU
RA92
PK
14
16
JX201
10
20
13
17
IA01
D-BU
IA02
PK
FB10
D-BU
FB20
PK
9
9
X1
22
21
120 Ω
K9
Body
Control
Module
X1
23
24
K36
Inflatable
Restraint
Sensing
and
Diagnostic
Module

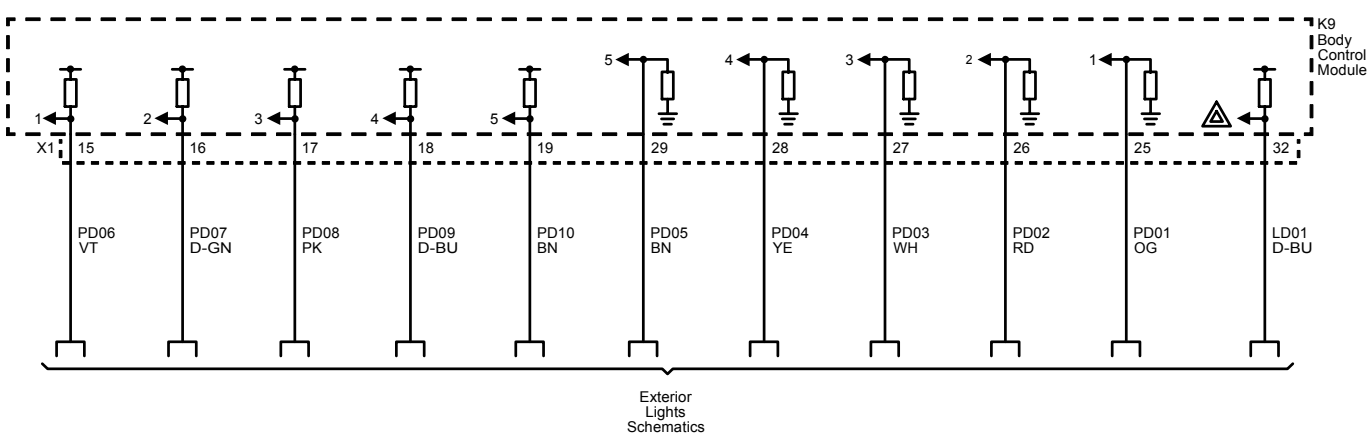

A11
Radio
120 Ω
X2
5
14
6
7
9
9
RA12
L-BU
RA13
L-GN
RT10
L-BU
RT11
L-GN
3
7
2
8
JX201
1
9
9
RT10
L-BU
RT11
L-GN
X2
1
5
K82
Mobile Telephone
Control Module
120 Ω
X2
7
8
3
4
9
9
RT08
L-BU
RT09
L-GN

Power and Ground (1 of 3)



Subsystem References (2 of 3)




K9
Body
Control
Module
X1
15
16
17
18
19
29
28
27
26
25
32
1
2
3
4
5
5
4
3
2
1
PD06
VT
PD07
D-GN
PD08
PK
PD09
D-BU
PD10
BN
PD05
BN
PD04
YE
PD03
WH
PD02
RD
PD01
OG
LD01
D-BU
Exterior
Lights
Schematics

Description and Operation

Body Control System Description and Operation

The body control system consists of the Body Control Module (BCM), communications, and various input and outputs. Some inputs, outputs and messages require other modules to interact with the BCM. The BCM also has discrete input and output terminals to control the vehicle's body functions. The BCM is wired to the high speed CAN serial data bus and multiple LIN buses and acts as a gateway between them.

Power Mode Master

This vehicle body control module functions as the power mode master (PMM). The ignition switch is a low current switch with multiple discrete ignition switch signals to the PMM for determining the power mode that will be sent over the serial data circuits to the other modules that need this information; the PMM will activate relays and other direct outputs of the PMM as needed. Refer to CELL Link Error - Link target cell (cell ID 148335) is invalid for this publication. for a complete description of power mode functions.

Gateway

The BCM in this vehicle functions as a gateway or translator. The purpose of the gateway is to translate serial data messages between the CAN high speed bus and multiple LIN buses for communication between the various modules. The gateway will interact with each network according to that network's transmission protocol.

All communication between the BCM and a scan tool is on the high speed CAN serial data circuits. A lost communication DTC typically is set in modules other than the module with a communication failure.

Body Control

The various BCM input and output circuits are illustrated in the corresponding functional areas on the BCM electrical schematics. Refer to the Body Control System Schematics for more detailed information.

Data Link Communications Description and Operation

Note: This is an overview of different serial data buses used by GM devices to communicate with each others. Use Data Communication Schematics to find out which serial data buses are configured for a specific vehicle.

Circuit Description

There are many components in a vehicle that rely on information from other sources, transmit information to other sources, or both. Serial data communication networks provide a reliable, cost effective, way for various components of the vehicle to “talk” to one another and share information.

GM uses a number of different communication buses to insure the timely and efficient exchange of information between devices. When compared to each other, some of these buses are different in nature as far as speed, signal characteristics, and behavior.

The majority of information that exists within a given network generally stays local; however some information will have to be shared on other networks. Control modules designated as Gateway’s perform the function of transferring information between the various buses. A Gateway module is connected to at least 2 buses and will interact with each network according to its message strategy and transmission models.

Controller Area Network (CAN) provides the capability for a receiving device to monitor message transmissions from other devices in order to determine if messages of interest are not being received. The primary purpose is to allow reasonable default values to be substituted for the information no longer being received. Additionally, a device may set a Diagnostic Trouble Code (DTC) to indicate that the device it is expecting information from is no longer communicating.

High Speed CAN Circuit Description

A High Speed CAN Bus is used where data needs to be exchanged at a high enough rate to minimize the delay between the occurrence of a change in sensor value and the reception of this information by a control device using the information to adjust vehicle system performance.

The High Speed CAN serial data network consists of two twisted wires. One signal circuit is identified as CAN-High and the other signal circuit is identified as CAN-Low. At each end of the data bus there is a 120 Ω termination resistor between the CAN-High and CAN-Low circuits.

Data symbols (1’s and 0’s) are transmitted sequentially at a rate of 500 Kbit/s. The data to be transmitted over the bus is represented by the voltage difference between the CAN-High signal voltage and the CAN-Low signal voltage.

When the two wire bus is at rest the CAN-High and CAN-Low signal circuits are not being driven and this represents a logic “1”. In this state both signal circuits are at the same voltage of 2.5 V. The differential voltage is approximately 0 V.

When a logic “0” is to be transmitted, the CAN-High signal circuit is driven higher to about 3.5 V and the CAN-Low circuit is driven lower to about 1.5 V. The differential voltage becomes approximately 2.0 (+/- 0.5) V.

Local Interconnect Network (LIN) Circuit Description

The Local Interconnect Network (LIN) Bus consists of a single wire with a transmission rate of 10.417 Kbit/s. This bus is used to exchange information between a master control module and other smart devices which provide supporting functionality. This type of configuration does not require the capacity or speed of either a High Speed CAN Bus or Mid Speed CAN Bus and is thus relatively simpler.

The data symbols (1’s and 0’s) to be transmitted are represented by different voltage levels on the communication bus. When the LIN Bus is at rest and is not being driven, the signal is in a high voltage state of approximately Vbatt. This represents a logic “1”. When a logic “0” is to be transmitted, the signal voltage is driven low to about ground (0.0 V).

Data Link Connector (DLC)

The X84 Data Link Connector (DLC) is a standardized 16-cavity connector. Connector design and location is dictated by an industry wide standard, and is required to provide the following:

- Terminal 4 Scan tool power ground terminal
- Terminal 5 Common signal ground terminal
- Terminal 6 High speed CAN serial data bus (+) terminal
- Terminal 7 Keyword communications terminal
- Terminal 8 Scan tool power, ignition terminal
- Terminal 14 High speed CAN serial data bus (-) terminal
- Terminal 16 Scan tool power, battery positive voltage terminal

Serial Data Reference

The scan tool communicates over the various buses on the vehicle. When a scan tool is installed on a vehicle, the scan tool will try to communicate with every device that could be optioned into the vehicle. If an option is not installed on the vehicle, the scan tool will display No Comm (or Not Connected) for that optional device. In order to avert misdiagnoses of No Communication with a specific device, refer to CELL Link Error - Link target cell (cell ID 148085) is invalid for this publication. for a list of devices, the buses they communicate with, and the RPO codes for a specific device.

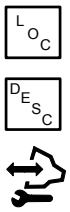
Power and Signal Distribution

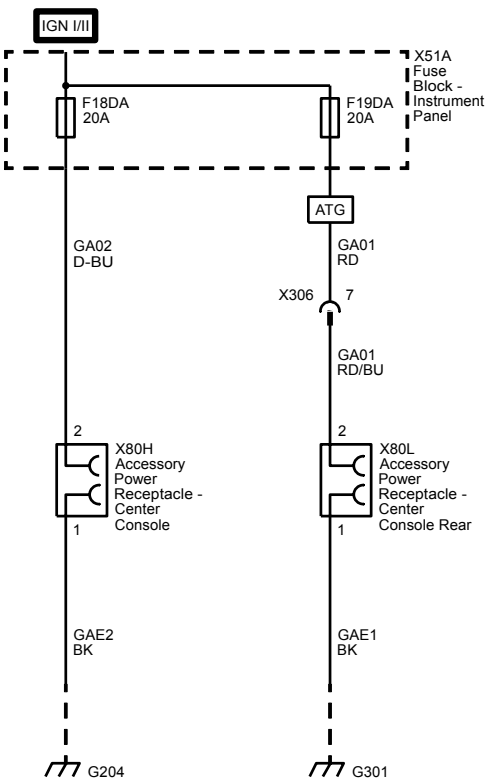
Power Outlets

Schematic and Routing Diagrams

Cigar Lighter/Power Outlet Schematics

Cigar Lighter/Power Outlet





Description and Operation

Power Outlets Description and Operation

System Description

The vehicle is fitted with a cigarette lighter and/or with a 12 V accessory power receptacle. The cigarette lighter and accessory power outlets are controlled by an ignition operated relay. The accessory power receptacle and cigarette lighter are operational when the ignition is turned to either the On or the Accessories positions. To operate the cigarette lighter, press in the lighter knob. When the element is hot, the lighter automatically pops out and is ready for use.

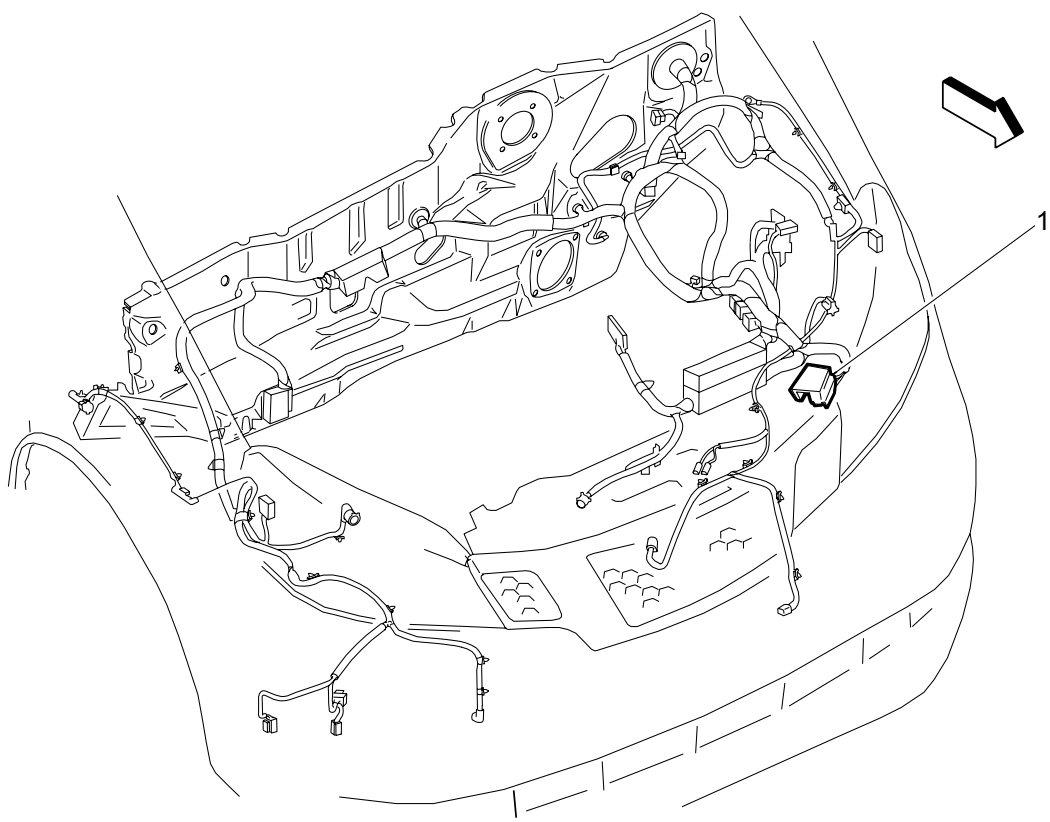
Power and Signal Distribution

Wiring Systems and Power Management

Schematic and Routing Diagrams

Harness Routing Views

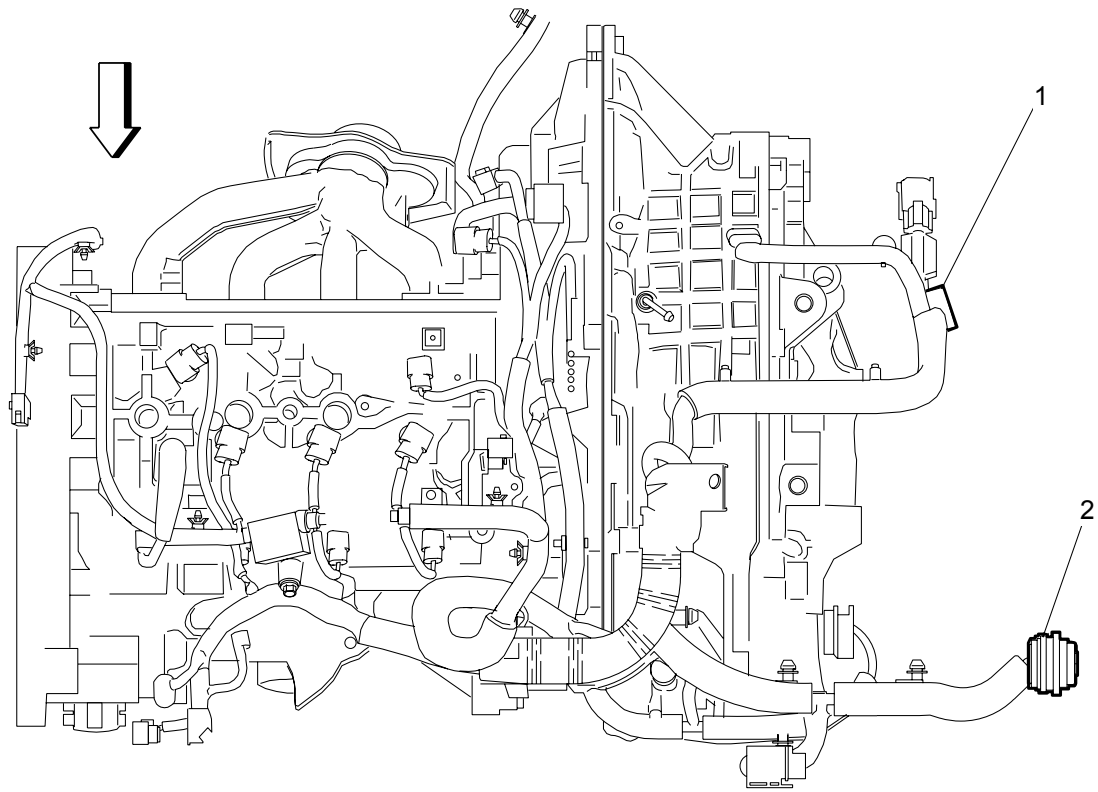
Engine Compartment Harness Routing View - Engine Compartment Side



Items

1. X150

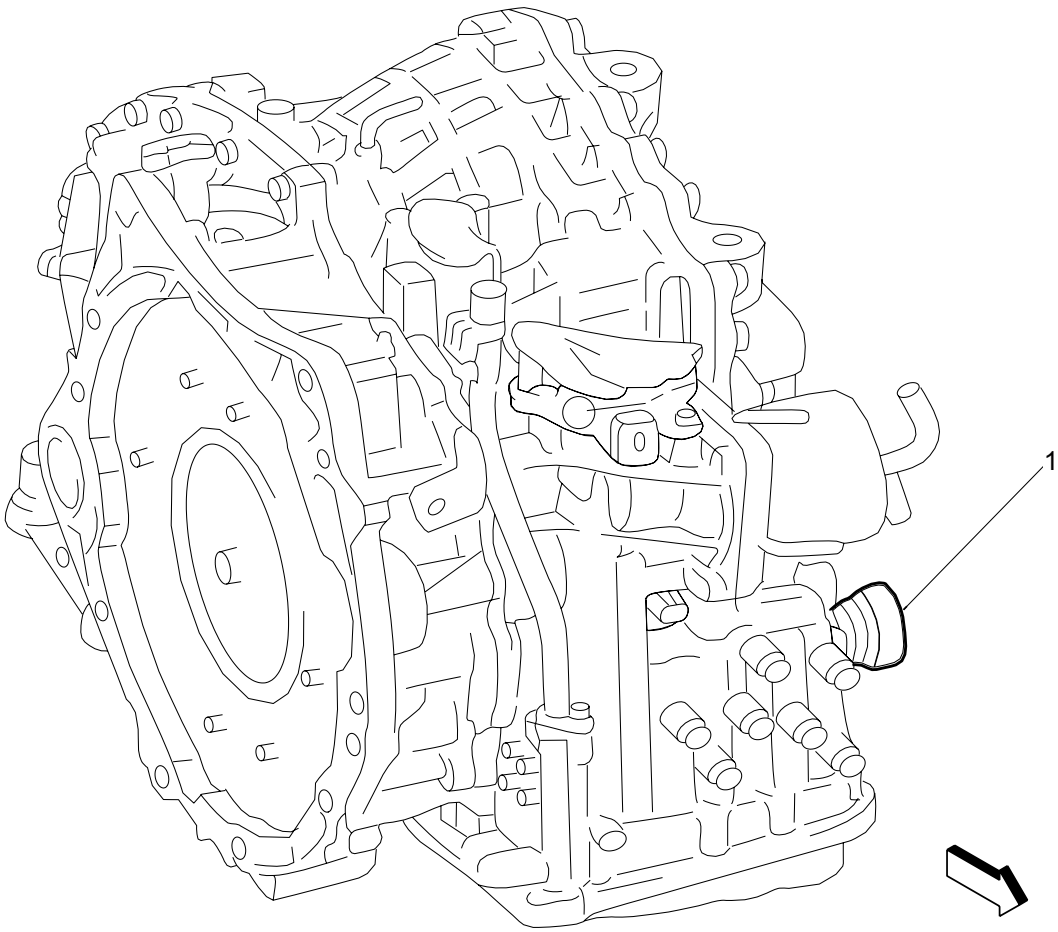
Engine Harness Routing View



Items

1. JX102
2. X150

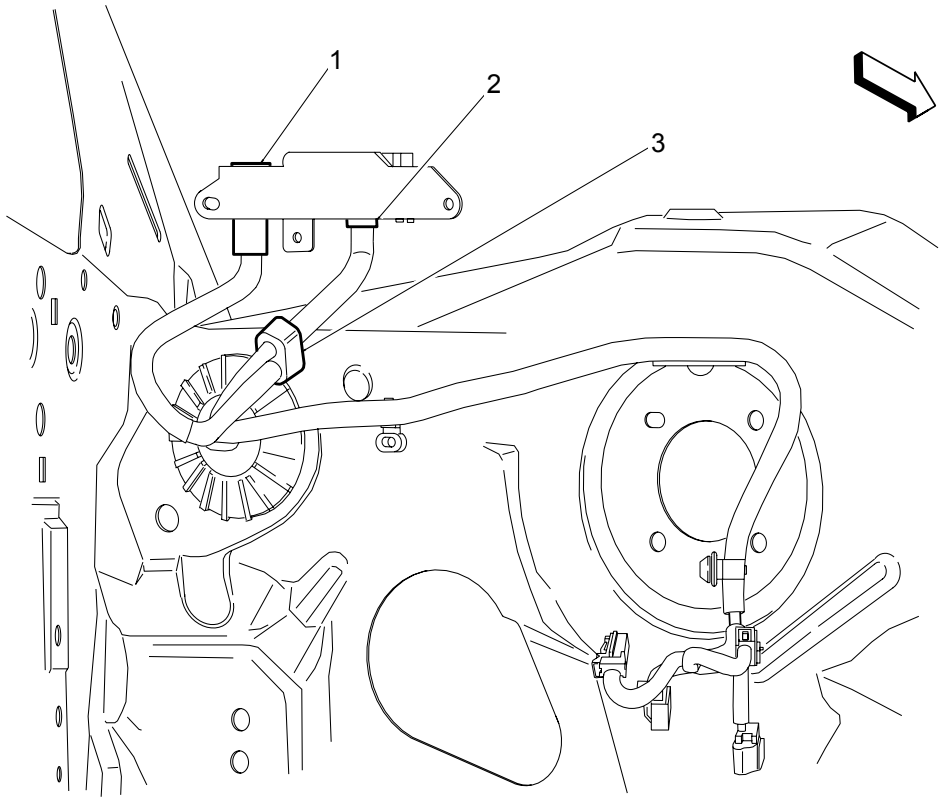
Automatic Transmission Harness Routing View



Items

1. X175

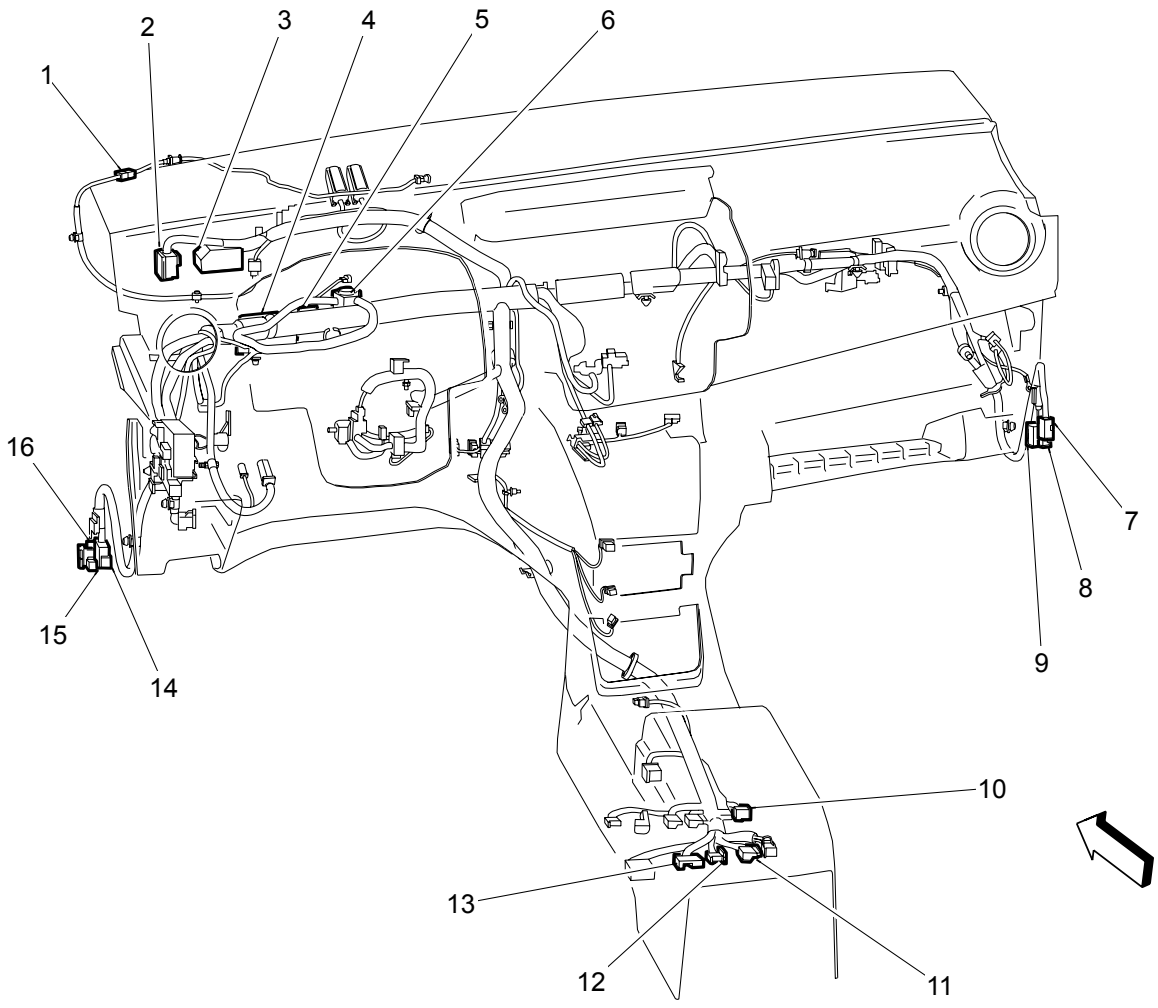
Engine Compartment Harness Routing View – Instrument Panel Side



Items

1. X202
2. X201
3. JX200

Instrument Panel Harness Routing View

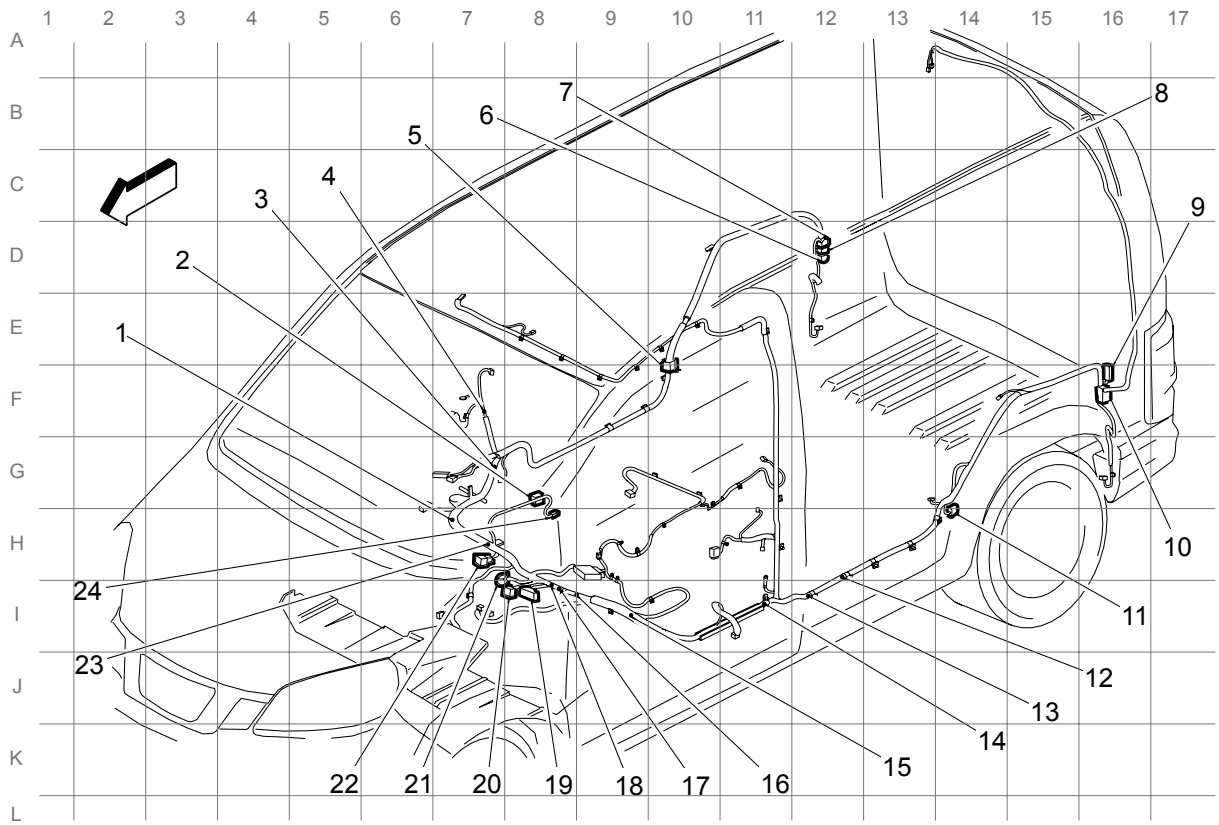


Items

1. X203
2. X202
3. X201
4. JX202
5. JX203
6. JX201
7. X602
8. X601
9. X600
10. X308
11. X307

11. X307
12. X306
13. X305
14. X502
15. X500
16. X501

Body Harness Routing View

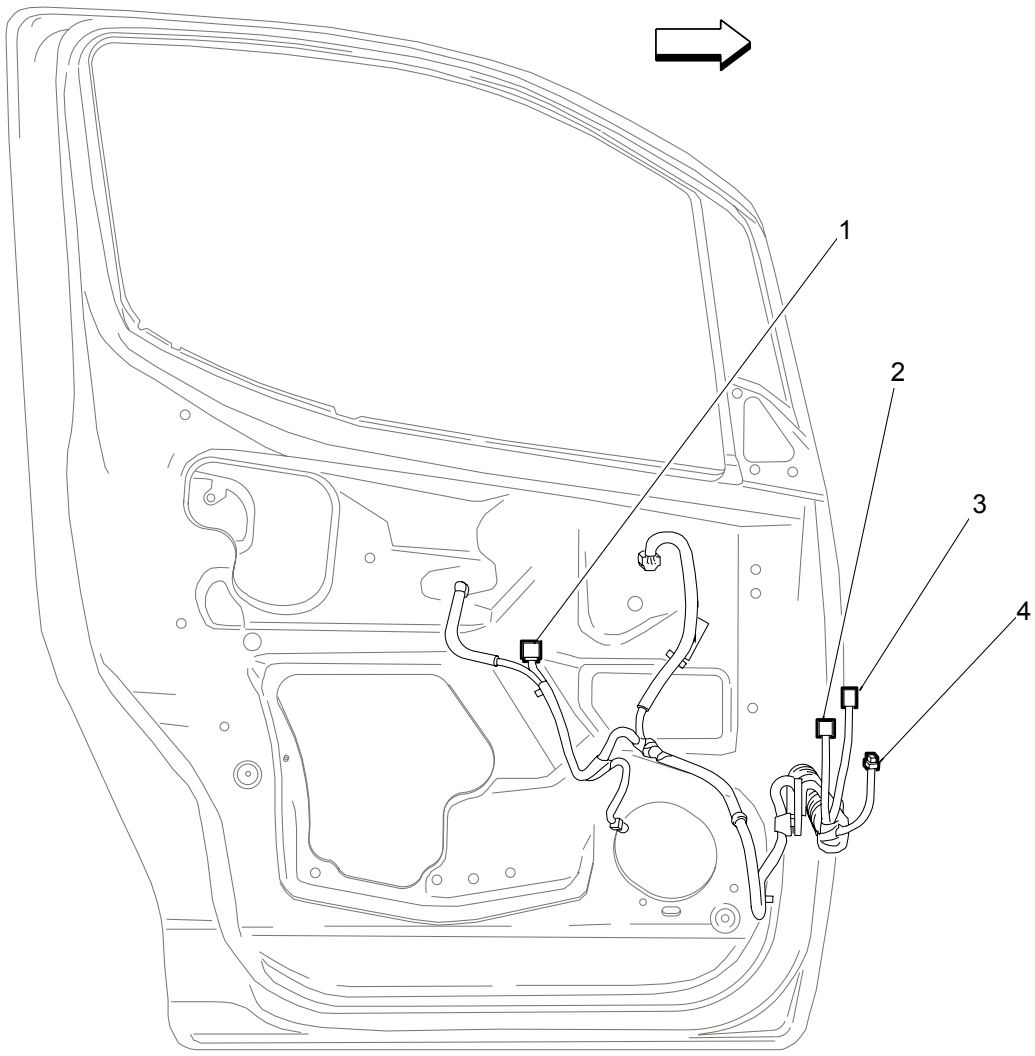


Items

1. J303
2. X300
3. J311
4. J314
5. X302
6. X420
7. X403
8. X402
9. X304
10. X410
11. X303
12. J305
13. J306
14. J313
15. J307

16. J301
17. J308
18. J304
19. X306
20. X308
21. X305
22. X307
23. J312
24. X301

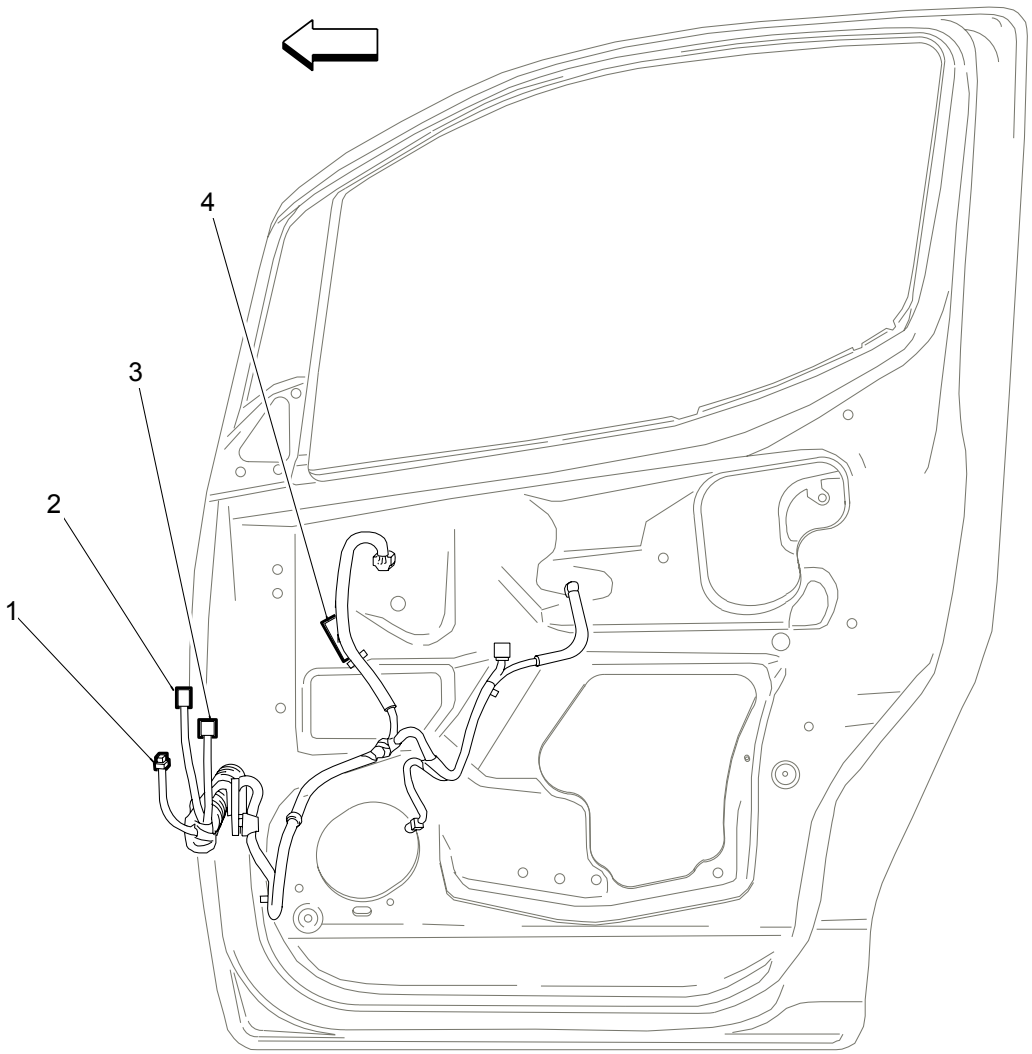
Driver Door Harness Routing View



Items

1. X510
2. X500
3. X501
4. X502

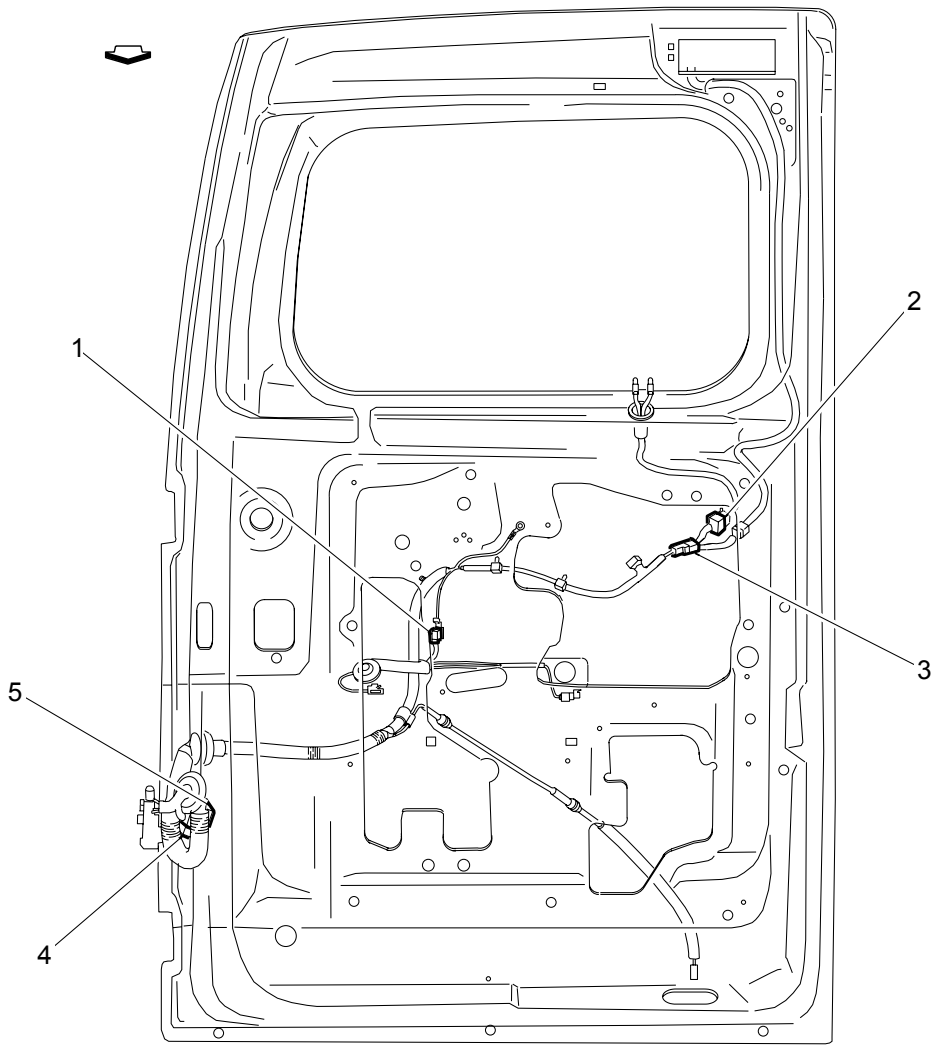
Passenger Door Harness Routing View



Items

1. X601
2. X602
3. X600
4. X610

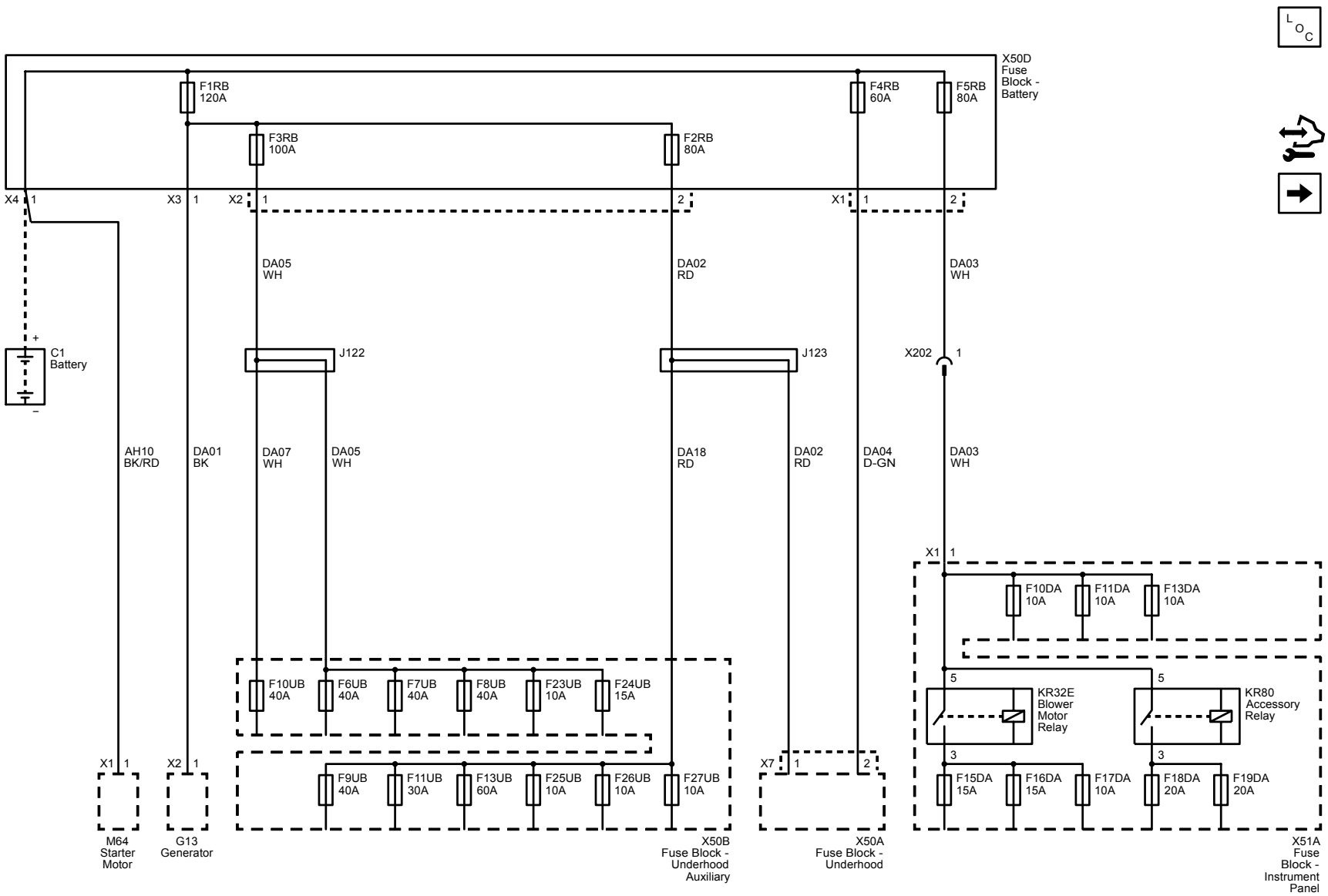
Rear Door Harness Routing View



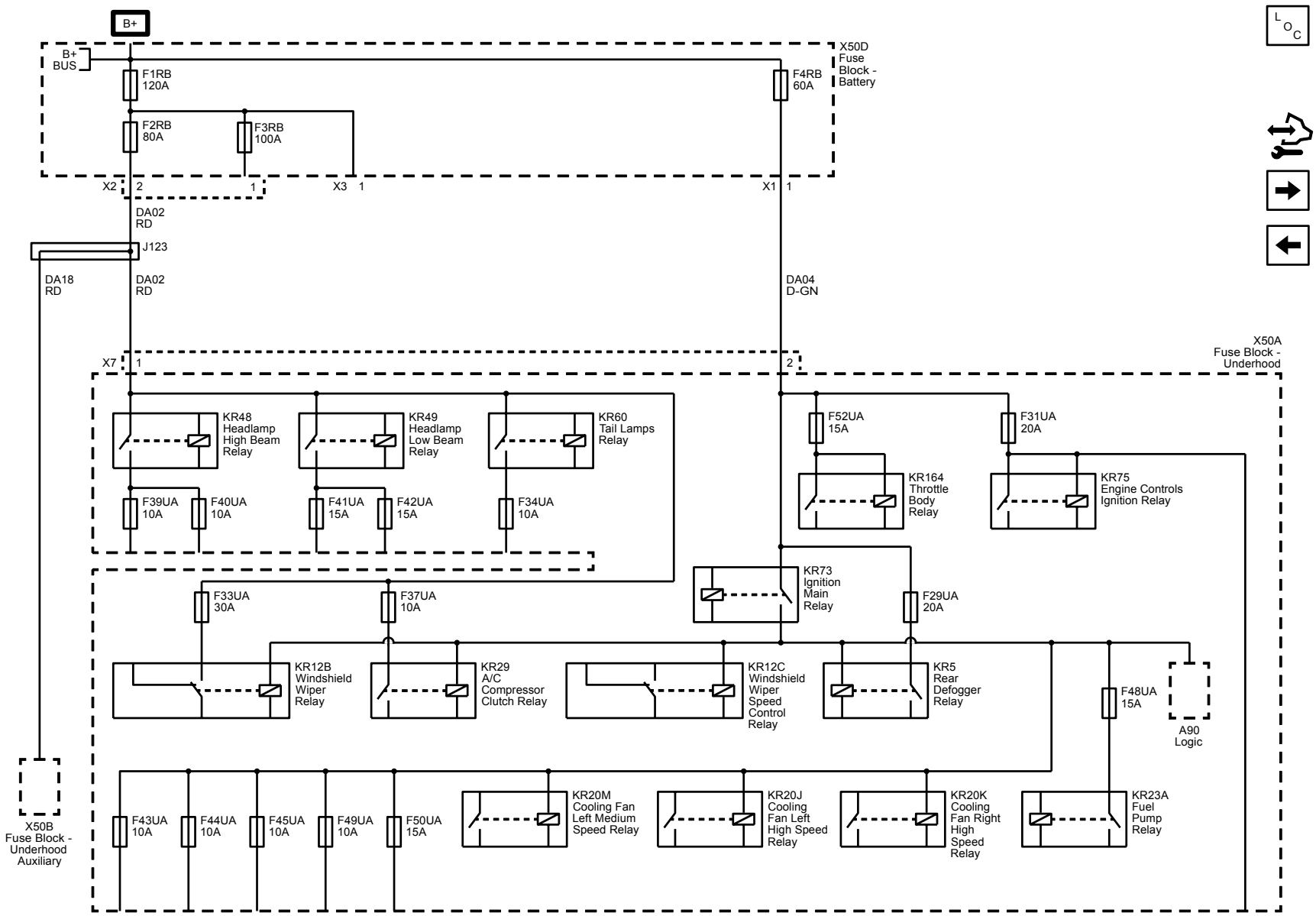
Items

1. X905
2. X906
3. X907
4. X403
5. X402

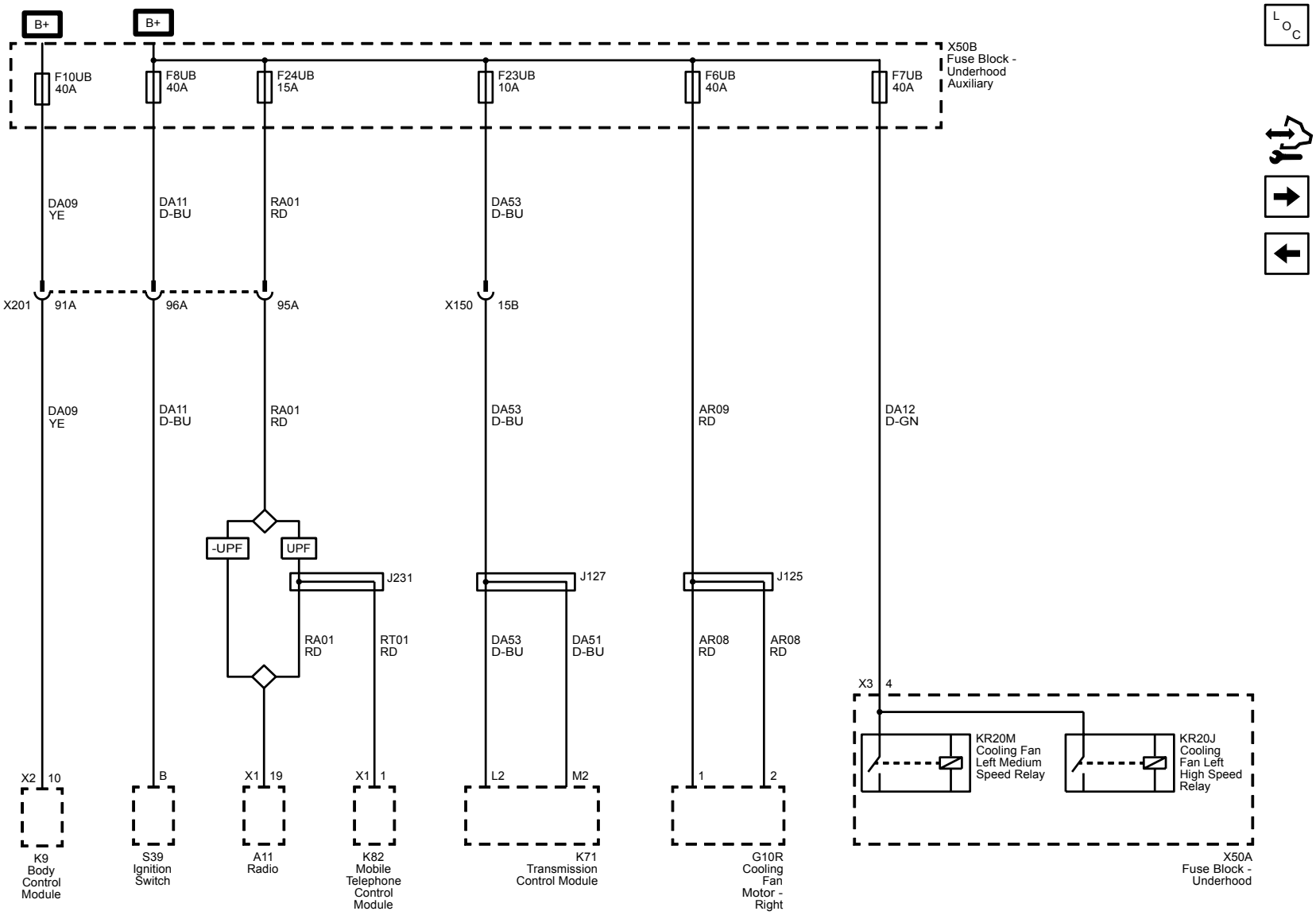
B+ Bussing (1 of 2)



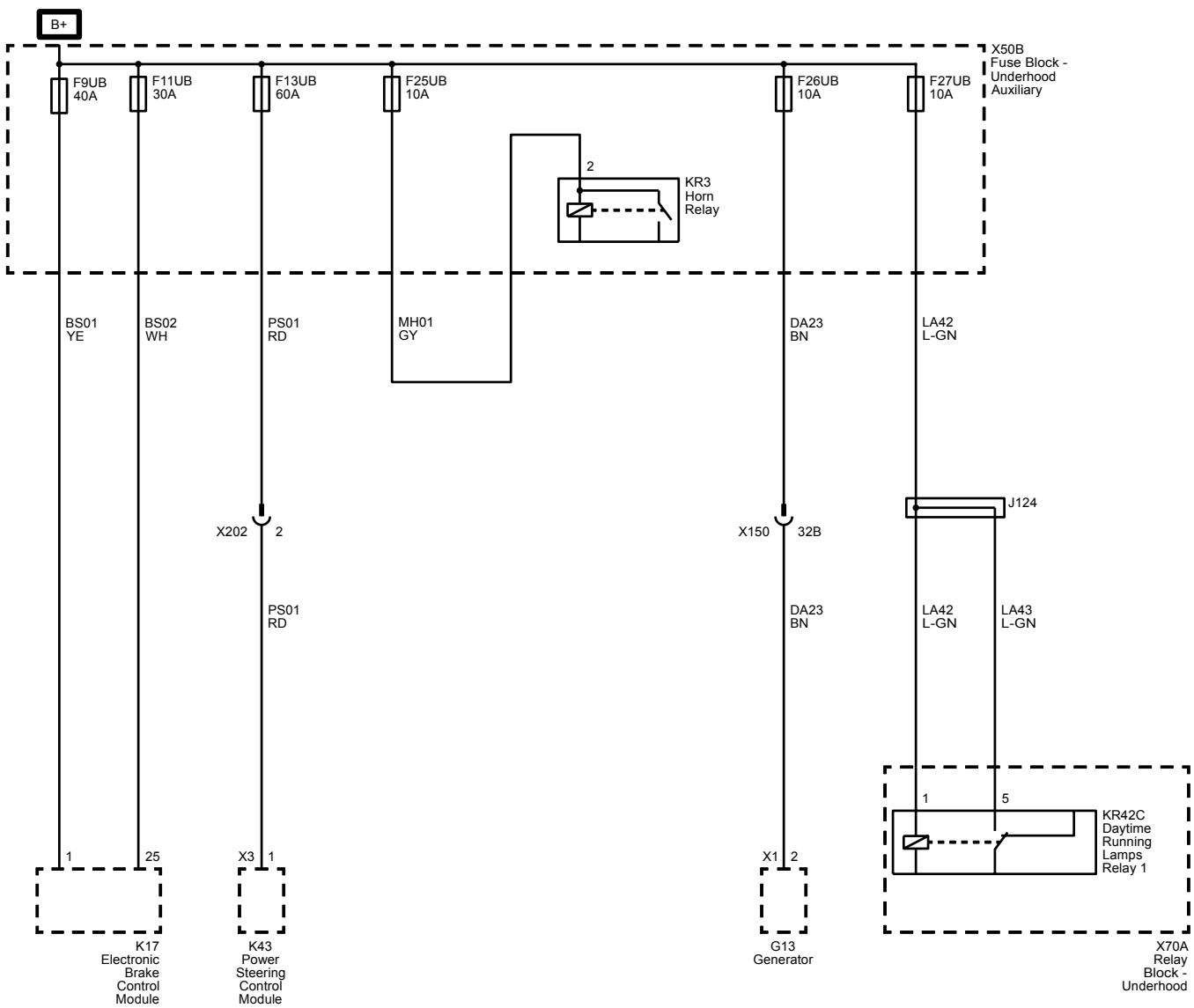
B+ Bussing (2 of 2)



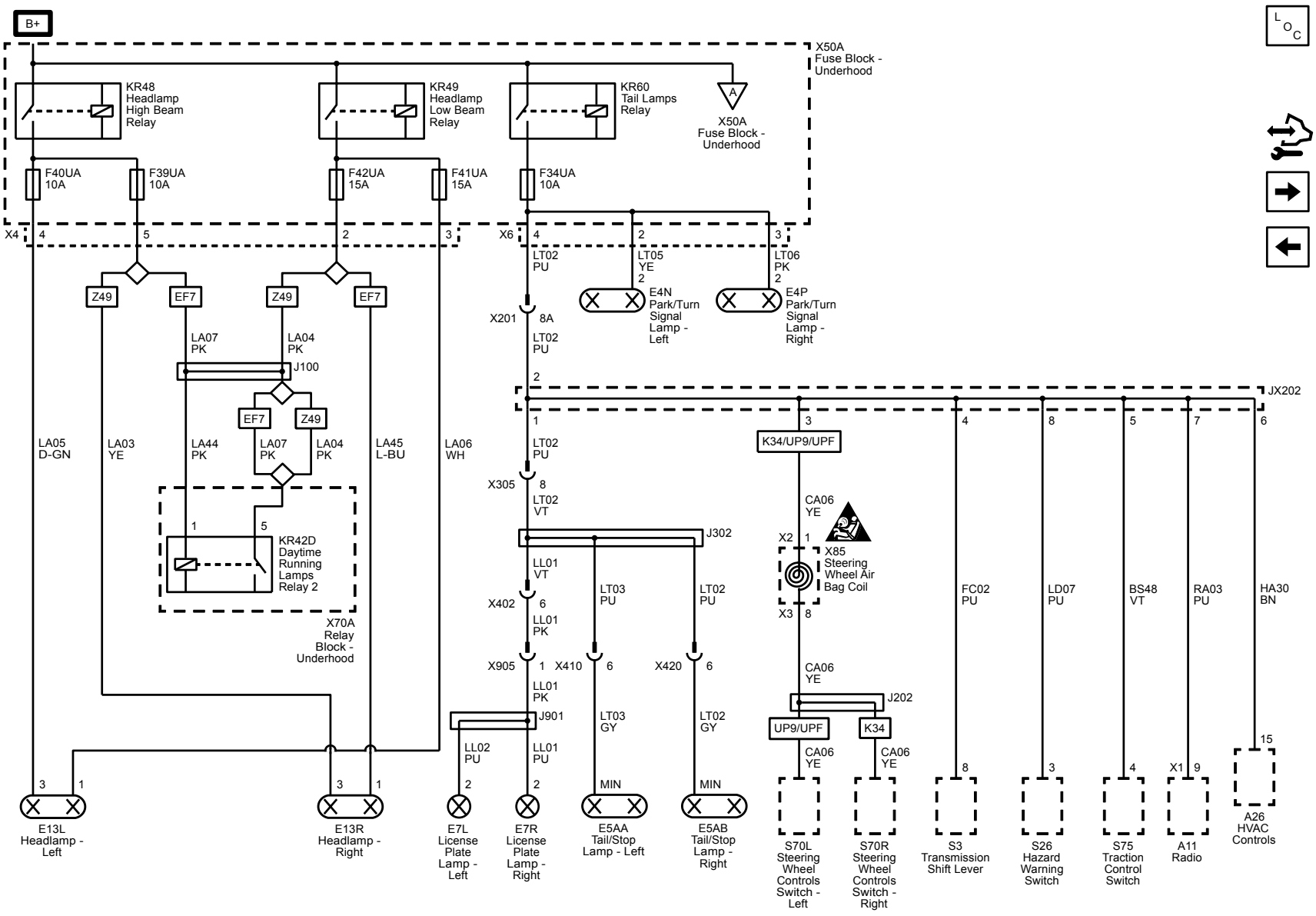
F6UB, F7UB, F8UB, F10UB, F23UB and F24UB Fuses



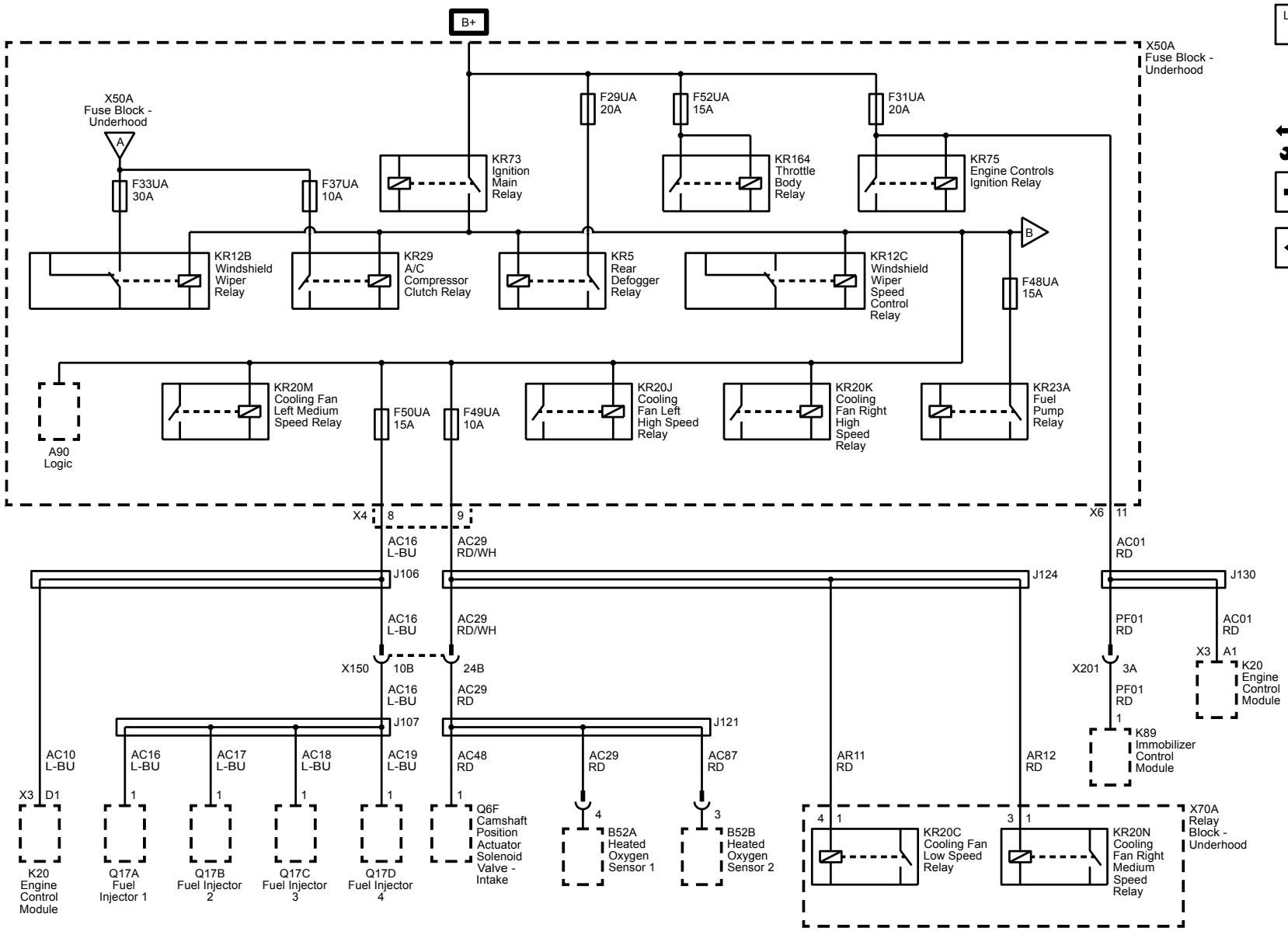
F9UB, F11UB, F13UB, F25UB, F26UB and F27UB Fuses



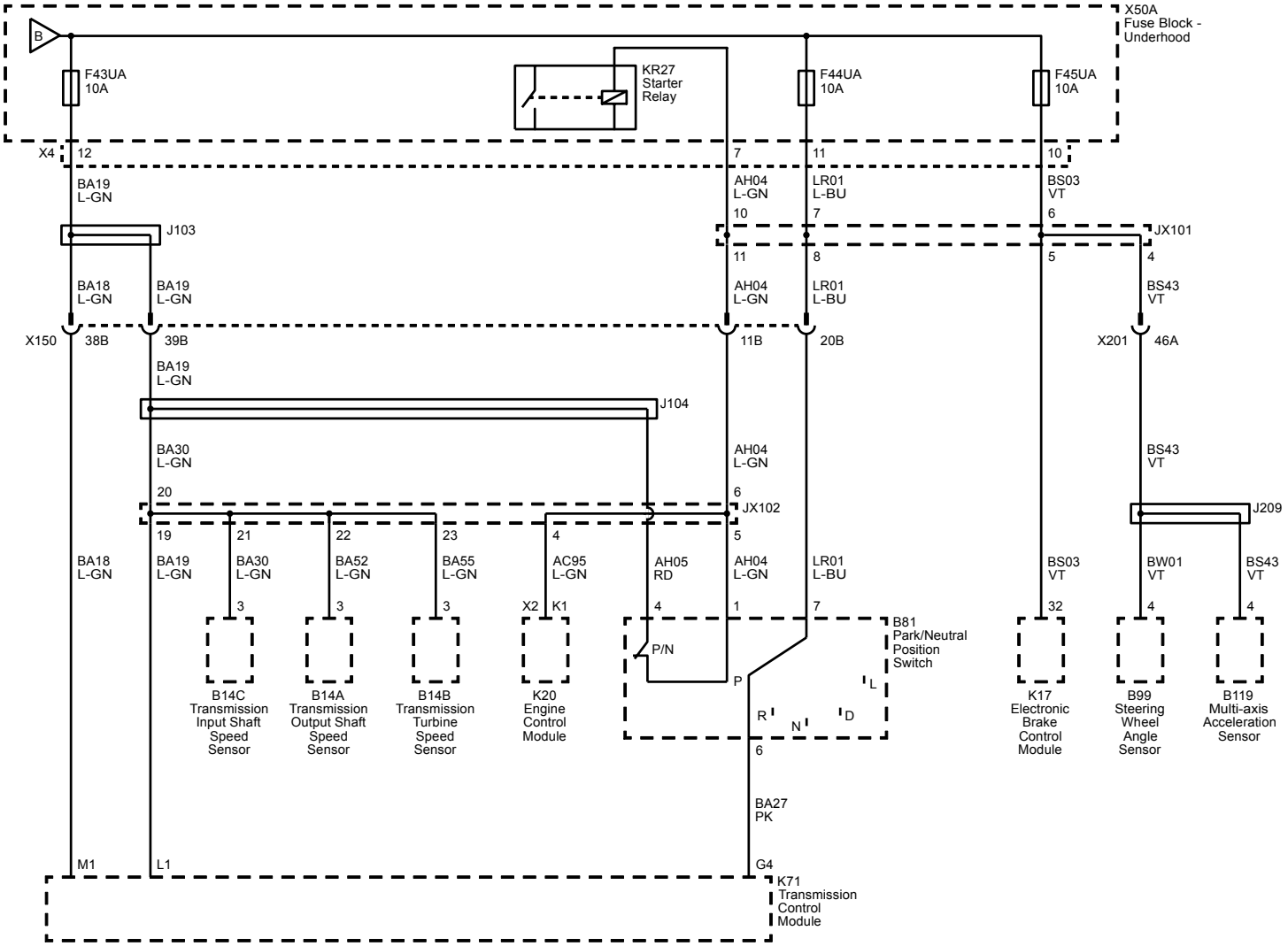
F34UA, F39UA, F40UA, F41UA and F42UA Fuses



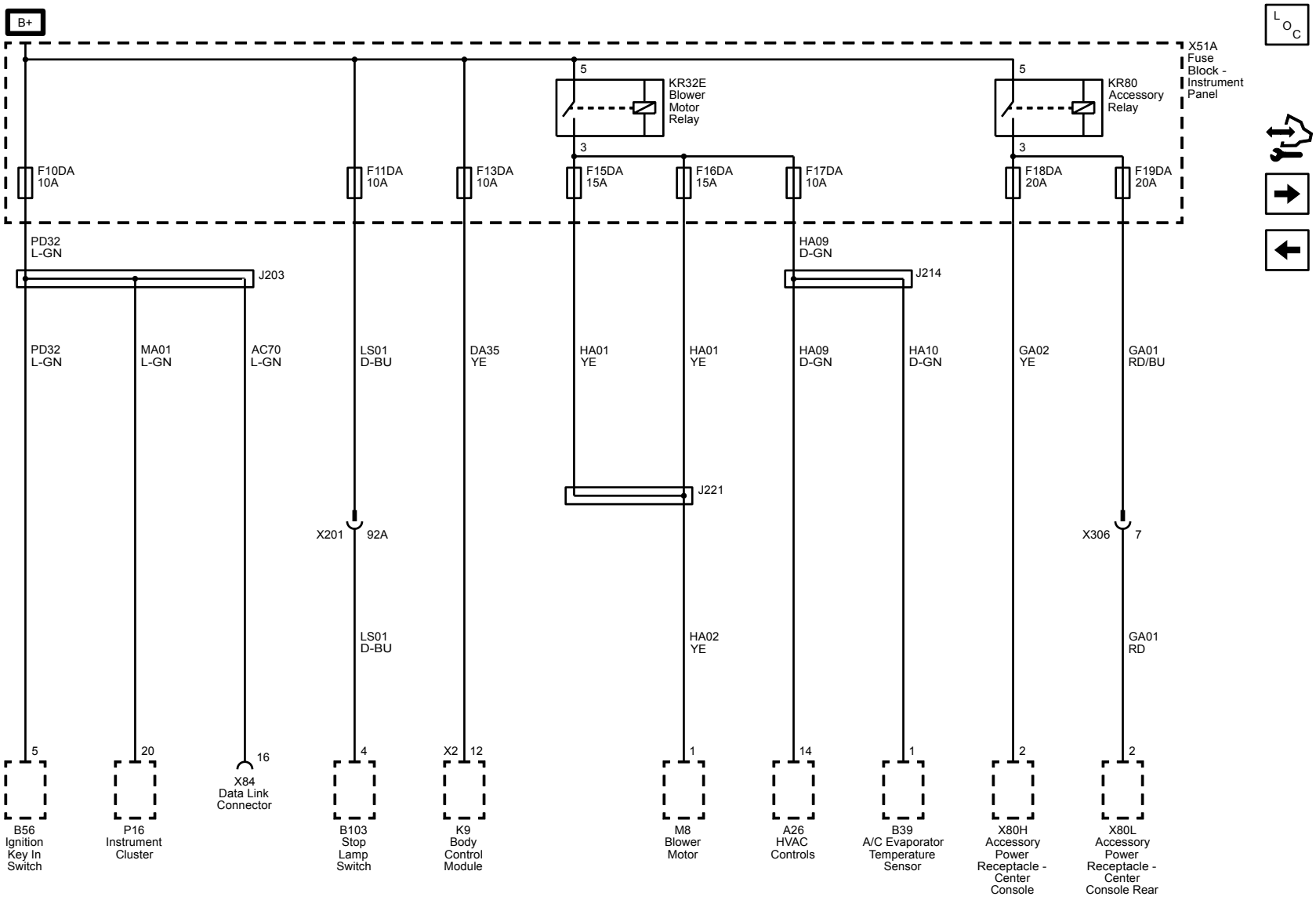
F29UA, F31UA, F33UA, F37UA, F48UA, F49UA, F50UA and F52UA Fuses



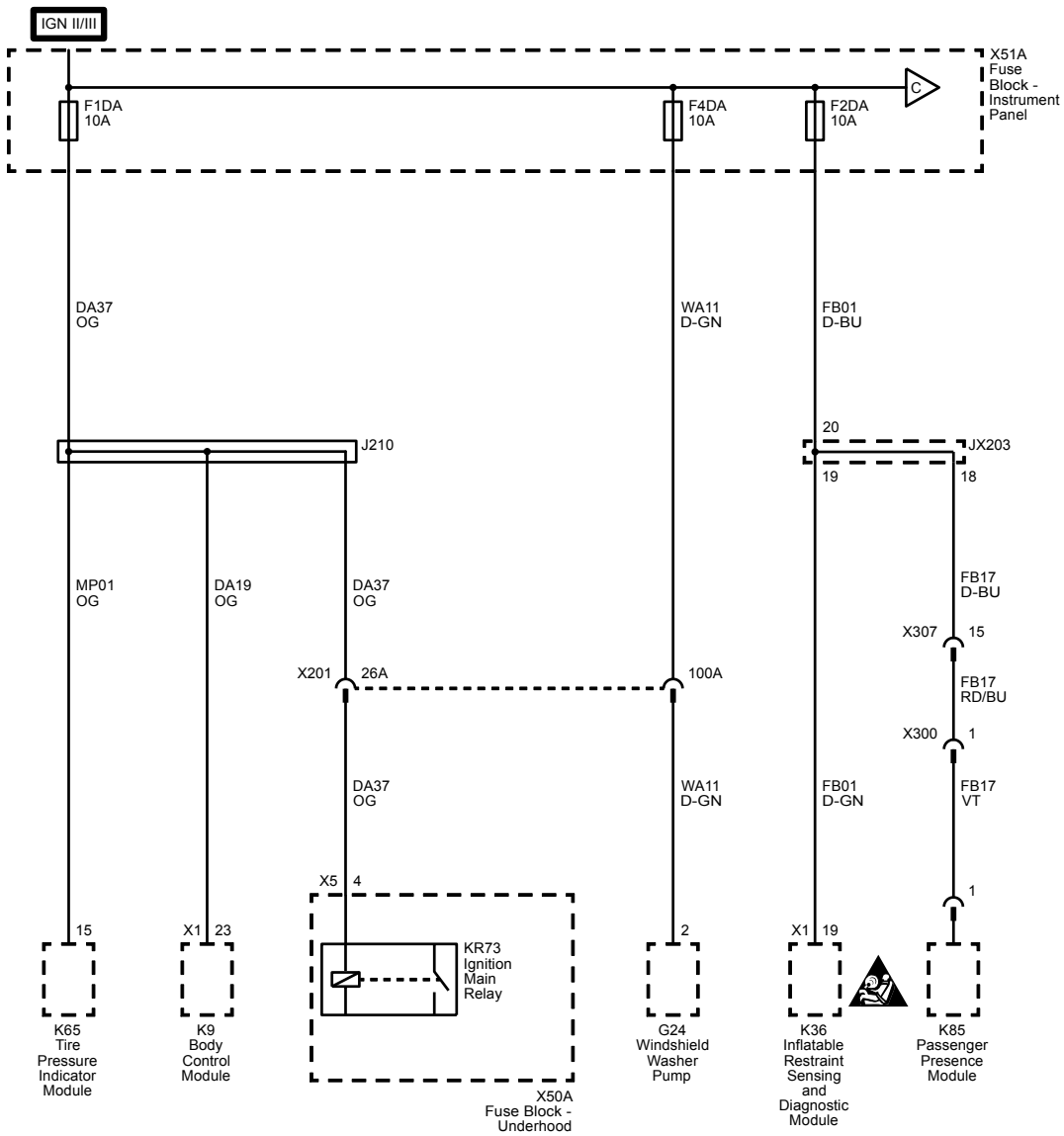
F43UA, F44UA and F45UA Fuses



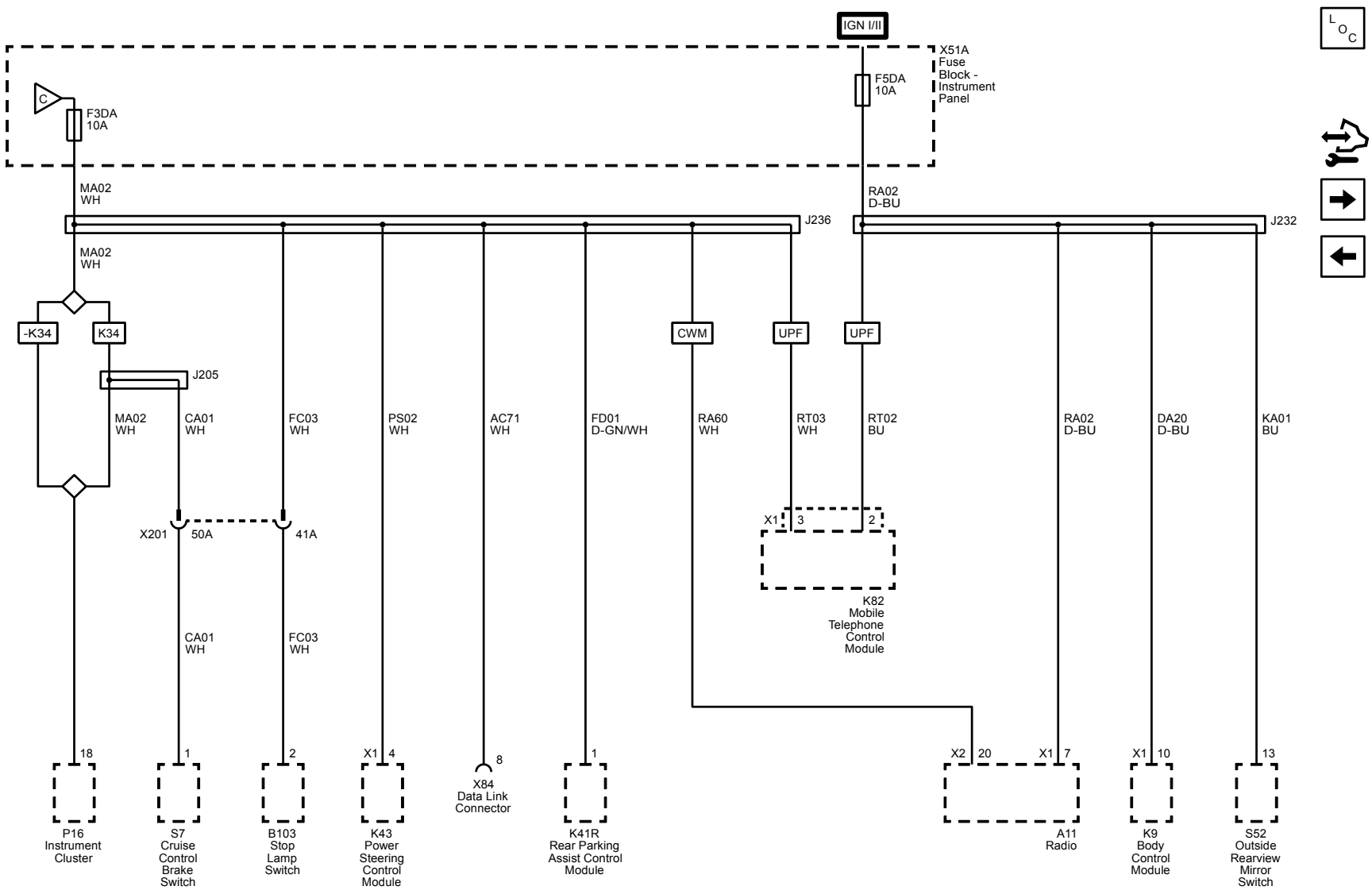
F10DA, F11DA, F13DA, F15DA, F16DA, F17DA, F18DA and F19DA Fuses



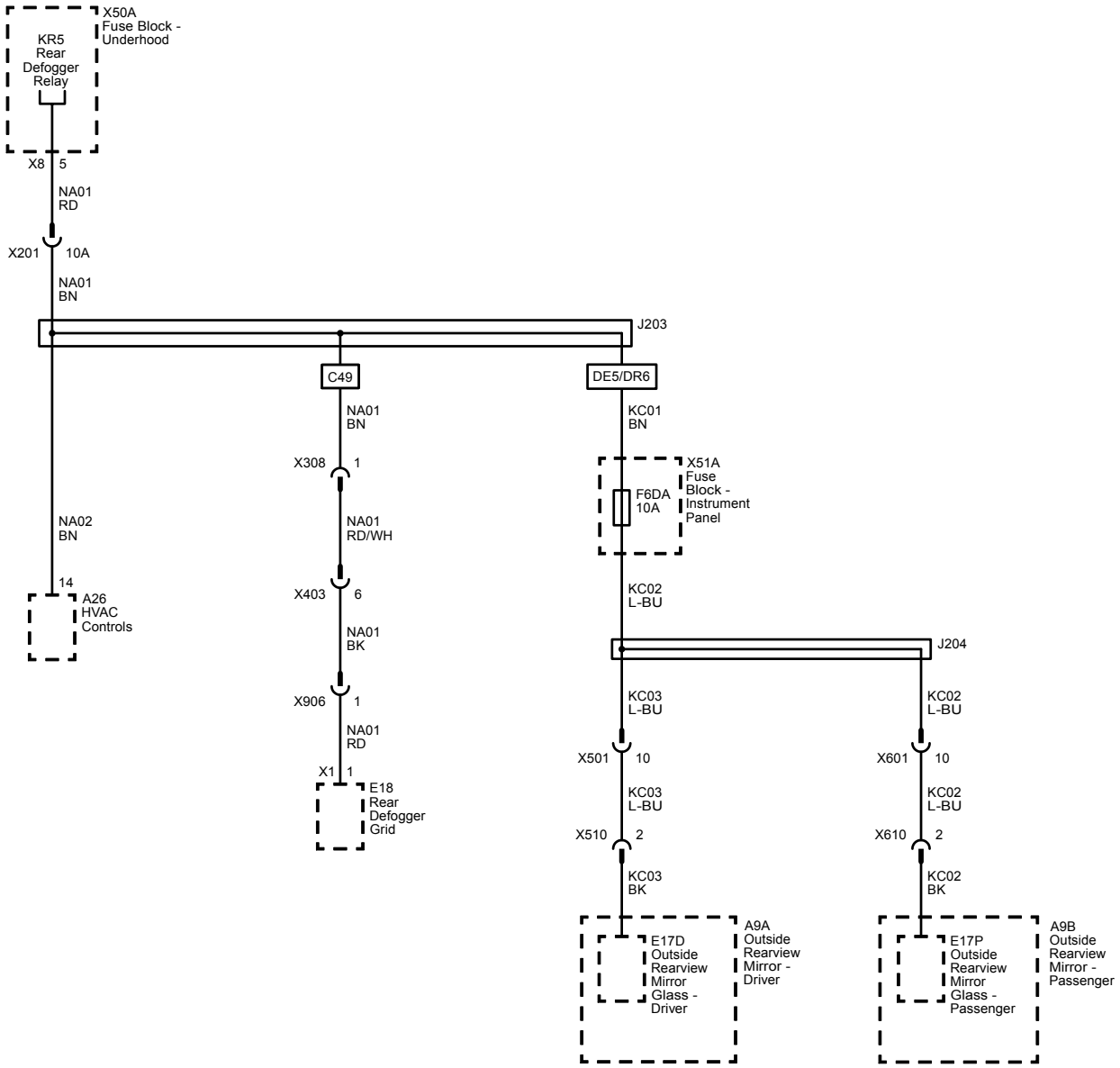
F1DA, F2DA and F4DA Fuses



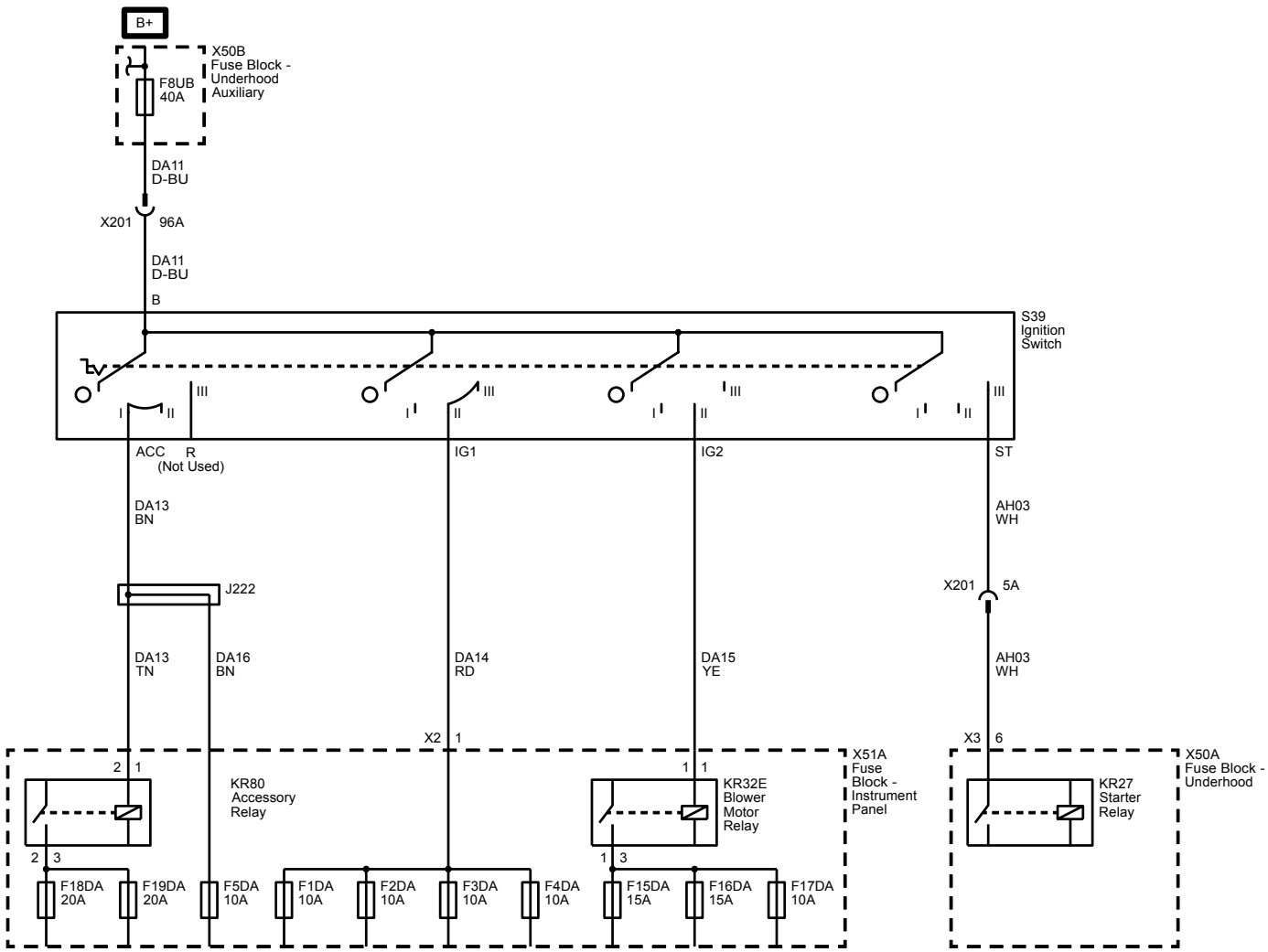
F3DA and F5DA Fuses



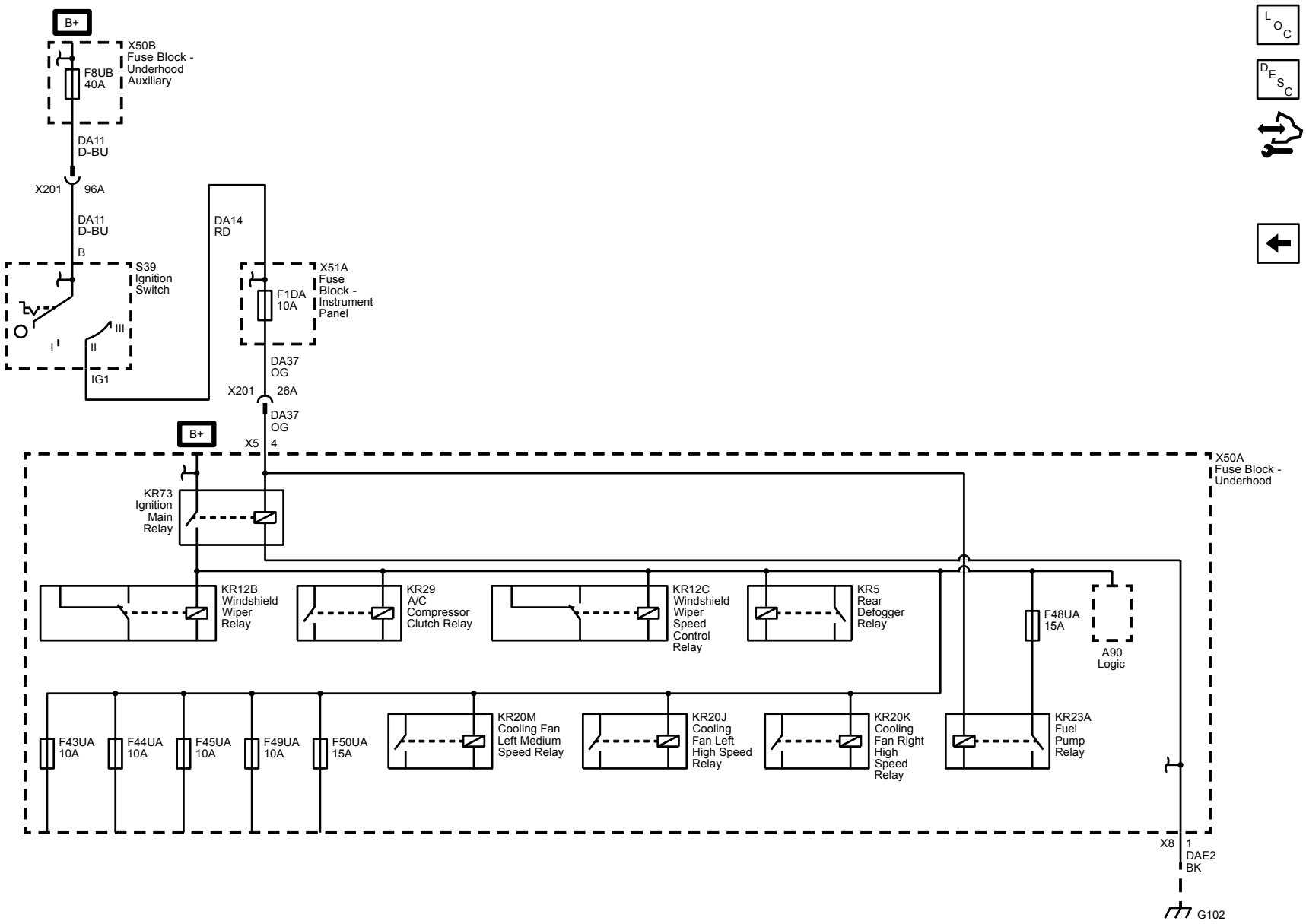
F6DA Fuse


X50A
Fuse Block - Underhood
KR5
Rear Defogger Relay
X8
5
NA01
RD
X201
10A
NA01
BN
J203
C49
DE5/DR6
NA01
BN
X308
1
NA01
RD/WH
X403
6
NA01
BK
X906
1
NA01
RD
X1
1
E18
Rear Defogger Grid
NA02
BN
14
A26
HVAC Controls
KC01
BN
X51A
Fuse Block - Instrument Panel
F6DA
10A
KC02
L-BU
J204
KC03
L-BU
X501
10
KC03
L-BU
X510
2
KC03
BK
A9A
Outside Rearview Mirror - Driver
E17D
Outside Rearview Mirror Glass - Driver
KC02
L-BU
X601
10
KC02
L-BU
X610
2
KC02
BK
A9B
Outside Rearview Mirror - Passenger
E17P
Outside Rearview Mirror Glass - Passenger

Ignition Switch



Ignition Main Relay



Component Locator

Master Electrical Component List

Master Electrical Component List

Code	Name	Option	Location	Locator View	Connector End View
A2LF	Tire Pressure Receiver - Left Front	—	On the vehicle exterior, left front, in the wheel well, rear of the tire, behind the liner	—	*A2LF Tire Pressure Receiver - Left Front*
A2LR	Tire Pressure Receiver - Left Rear	—	On the vehicle exterior, left front, in the wheel well, rear of the tire, behind the liner	—	*A2LR Tire Pressure Receiver - Left Rear*
A2RF	Tire Pressure Receiver - Right Front	—	On the vehicle exterior, left front, in the wheel well, rear of the tire, behind the liner	—	*A2RF Tire Pressure Receiver - Right Front*
A2RR	Tire Pressure Receiver - Right Rear	—	On the vehicle exterior, left front, in the wheel well, rear of the tire, behind the liner	—	*A2RR Tire Pressure Receiver - Right Rear*
A7	Fuel Pump and Level Sensor Assembly	—	On the vehicle underbody, inside the fuel tank	*Fuel Tank Components*	*A7 Fuel Pump and Level Sensor Assembly*
A9A	Outside Rearview Mirror - Driver	—	On the vehicle exterior, on the driver door, forward of the window opening	*Driver Door Components*	—
A9B	Outside Rearview Mirror - Passenger	—	On the vehicle exterior, on the passenger door, forward of the window opening	• *Front of Vehicle Components* • *Passenger Door Components*	—
A11	Radio	—	In the passenger compartment, in the middle of the instrument panel	*Instrument Panel Components*	• *A11 Radio X1* • *A11 Radio X2 (U1B with UPF)* • *A11 Radio X2 (CWM)* • *A11 Radio X3* • *A11 Radio X4 (CWM)* • *A11 Radio X5 (CWM)* • *A11 Radio X6 (CWM)*
A23D	Door Latch Assembly - Driver	—	In the passenger compartment, inside the driver door, at the rear middle of the door	*Driver Door Components*	*A23D Door Latch Assembly - Driver*
A23P	Door Latch Assembly - Passenger	—	In the passenger compartment, inside the passenger door, at the rear middle of the door	*Driver Door Components*	*A23P Door Latch Assembly - Passenger*
A26	HVAC Controls	—	In the passenger compartment, middle of the instrument panel	*Instrument Panel Components*	*A26 HVAC Controls*
B1	A/C Refrigerant Pressure Sensor	—	On the vehicle exterior, at the front of the vehicle, on the right side of the A/C condenser, behind the fascia	*Engine Compartment Components*	*B1 A/C Refrigerant Pressure Sensor*
B5LF	Wheel Speed Sensor - Left Front	—	On the vehicle underbody, near the left front wheel, on the hub	*Front Wheel Well Components*	*B5LF Wheel Speed Sensor - Left Front*
B5LR	Wheel Speed Sensor - Left Rear	—	On the vehicle underbody, near the left rear wheel, on the hub	*Rear Wheel Well Components*	*B5LR Wheel Speed Sensor - Left Rear*
B5RF	Wheel Speed Sensor - Right Front	—	On the vehicle underbody, near the right front wheel, on the hub	—	*B5RF Wheel Speed Sensor - Right Front*
B5RR	Wheel Speed Sensor - Right Rear	—	On the vehicle underbody, near the right rear wheel, on the hub	*Rear Wheel Well Components*	*B5RR Wheel Speed Sensor - Right Rear*

B9	Ambient Air Temperature Sensor	—	On the vehicle exterior, at the front of the vehicle, on the left side of the lower grille	—	*B9 Ambient Air Temperature Sensor*
B12B	Transmission Fluid Pressure Sensor	—	In the engine compartment, inside the automatic transmission, part of the control solenoid valve assembly	—	—
B13	Transmission Fluid Temperature Sensor	—	In the engine compartment, inside the automatic transmission, part of the control solenoid valve assembly	—	—
B14A	Transmission Output Shaft Speed Sensor	—	In the engine compartment, rear, on the back side of the automatic transmission	*Automatic Transmission Electronic Components*	*B14A Transmission Output Speed Sensor*
B14B	Transmission Turbine Speed Sensor	—	In the engine compartment, on the side cover of the automatic transmission	—	*B14B Transmission Turbine Speed Sensor*
B14C	Transmission Input Shaft Speed Sensor	—	In the engine compartment, front, on the automatic transmission	*Automatic Transmission Electronic Components*	*B14C Transmission Input Speed Sensor*
B18	Battery Current Sensor	—	In the engine compartment, left rear, on the negative battery cable end	—	*B18 Battery Current Sensor*
B20	Brake Fluid Level Switch	—	In the engine compartment, left rear, on the brake fluid reservoir	—	*B20 Brake Fluid Level Switch*
B23	Camshaft Position Sensor	—	In the engine compartment, on the engine, on the top left side of the engine, on the camshaft cover	• *Top of the Engine Components* • *Left Front of the Engine Components*	*B23 Camshaft Position Sensor*
B24	Cellular Phone Microphone	CWM or UPF	In the passenger compartment, in the headliner, near the driver's sunvisor	—	*B24 Cellular Phone Microphone (CWM or UPF)*
B26	Crankshaft Position Sensor	—	In the engine compartment, front of the engine block, near the starter motor	*Left Front of the Engine Components*	*B26 Crankshaft Position Sensor*
B28C	Door Ajar Switch - Rear Cargo	—	In the passenger compartment, inside the rear right cargo door	*Door Ajar Switches*	*B28C Door Ajar Switch - Rear Cargo*
B28D	Door Ajar Switch - Driver	—	In the passenger compartment, in the left B-pillar, below the door striker	*Door Ajar Switches*	*B28D Door Ajar Switch - Driver*
B28E	Door Ajar Switch - Left Sliding	—	In the passenger compartment, in the left C-pillar, below the door striker	• *Door Ajar Switches* • *Left Sliding Door Components*	*B28E Door Ajar Switch - Left Sliding*
B28F	Door Ajar Switch - Right Sliding	—	In the passenger compartment, in the right C-pillar, below the door striker	• *Door Ajar Switches* • *Right Sliding Door Components*	*B28F Door Ajar Switch - Right Sliding*
B28P	Door Ajar Switch - Passenger	—	In the passenger compartment, in the right B-pillar, below the door striker	• *Door Ajar Switches* • *Passenger Door Components*	*B28P Door Ajar Switch - Passenger*
B29D	Door Lock Key Cylinder Switch - Driver	—	In the passenger compartment, inside the driver door, part of A23D Door Latch Assembly-Driver	—	—
B34	Engine Coolant Temperature Sensor	—	In the engine compartment, on the rear of the engine, on the thermostat housing	*Top of the Engine Components*	*B34 Engine Coolant Temperature Sensor*
B36	Engine Oil Temperature Sensor	—	In the engine compartment, in the oil pan	—	*B36 Engine Oil Temperature Sensor*
B37B	Engine Oil Pressure Sensor	—	In the engine compartment, on the right rear side of the engine block	*Left Front of the Engine Components*	*B37B Engine Oil Pressure Sensor*

B39	A/C Evaporator Temperature Sensor	—	In the passenger compartment, on the HVAC unit asembly, right center of the dash	—	*B39 A/C Evaporator Temperature Sensor*
B46	Fuel Level Sensor	—	On the vehicle underbody, inside the fuel tank, part of A7 Fuel Pump and Level Sensor Assembly	—	—
B48	Fuel Temperature Sensor	—	On the vehicle underbody, inside the fuel tank, part of A7 Fuel Pump and Level Sensor Assembly	—	—
B52A	Heated Oxygen Sensor 1	—	In the engine compartment, on the engine exhaust manifold	*Bottom of the Engine Components*	*B52A Heated Oxygen Sensor 1*
B52B	Heated Oxygen Sensor 2	—	On the vehicle underbody, on the exhaust system after the catalytic converter	*Bottom of the Engine Components*	*B52B Heated Oxygen Sensor 2*
B56	Ignition Key In Switch	—	In the passenger compartment, on the right side of the steering column, inside ignition lock cylinder housing	—	*B56 Ignition Key In Switch*
B59	Front Impact Sensor	—	On the vehicle exterior, at the front of the vehicle, below the hood latch	—	*B59 Front Impact Sensor*
B62P	Seat Position Sensor - Passenger (1)	—	In the passenger compartment, under the passenger seat, front of the left seat track.	*Passenger Seat Components*	*B62P Seat Position Sensor - Passenger (1)*
B62P	Seat Position Sensor - Passenger (2)	—	In the passenger compartment, under the passenger seat, rear of the left seat track.	*Passenger Seat Components*	*B62P Seat Position Sensor - Passenger (2)*
B63LF	Side Impact Sensor - Left Front	—	In the passenger compartment, inside the driver door	—	*B63LF Side Impact Sensor - Left Front*
B63LM	Side Impact Sensor - Left Middle	—	In the passenger compartment, at the bottom of the left B-pillar	*B-Pillar Components*	*B63LM Side Impact Sensor - Left Middle*
B63RF	Side Impact Sensor - Right Front	—	In the passenger compartment, inside the passenger door	—	*B63RF Side Impact Sensor - Right Front*
B63RM	Side Impact Sensor - Right Middle	—	In the passenger compartment, at the bottom of the right B-pillar	*B-Pillar Components*	*B63RM Side Impact Sensor - Right Middle*
B68	Knock Sensor	—	In the engine compartment, on the front side of the engine, below the cylinder head, center	*Left Front of the Engine Components*	*B68 Knock Sensor*
B75	Mass Air Flow Sensor	—	In the engine compartment, on the intake air cleaner assembly	*Top of the Engine Components*	*B75 Mass Air Flow Sensor*
B78E	Rear Object Sensor - Left Middle	UD7	On the vehicle exterior, rear of the vehicle, part of the rear bumper assembly	*Luggage Compartment/Rear of Vehicle Component Views*	*B78E Rear Object Sensor - Left Middle (UD7)*
B78F	Rear Object Sensor - Right Middle	UD7	On the vehicle exterior, rear of the vehicle, part of the rear bumper assembly	*Luggage Compartment/Rear of Vehicle Component Views*	*B78F Rear Object Sensor - Right Middle (UD7)*
B78G	Rear Object Sensor - Left Outer	UD7	On the vehicle exterior, rear of the vehicle, part of the rear bumper assembly	*Luggage Compartment/Rear of Vehicle Component Views*	*B78G Rear Object Sensor - Left Outer (UD7)*
B78H	Rear Object Sensor - Right Outer	UD7	On the vehicle exterior, rear of the vehicle, part of the rear bumper assembly	*Luggage Compartment/Rear of Vehicle Component Views*	*B78H Rear Object Sensor - Right Outer (UD7)*
B80	Park Brake Switch	—	In the passenger compartment, inside the center console, at the bottom of the parking brake lever assembly	—	*B80 Park Brake Switch*

B81	Park/Neutral Position Switch	—	In the engine compartment, on top of the automatic transmission case at the shift linkage	*Automatic Transmission Electronic Components*	*B81 Park/Neutral Position Switch*
B81B	Park Position Switch	—	In the passenger compartment, part of the transmission shift lever assembly	—	—
B87	Rearview Camera	UVC	On the vehicle exterior, rear of the vehicle, above the license plate	—	*B87 Rearview Camera (UVC)*
B88D	Seat Belt Switch - Driver	—	In the passenger compartment, on the right side of the driver seat, part of B153D Seat Belt Buckle-Driver	*Driver Seat Components*	—
B88P	Seat Belt Switch - Passenger	—	In the passenger compartment, on the left side of the passenger seat, part of B153P Seat Belt Buckle-Passenger	*Passenger Seat Components*	—
B99	Steering Wheel Angle Sensor	—	In the passenger compartment, on the lower center of the steering column	—	*B99 Steering Wheel Angle Sensor*
B103	Stop Lamp Switch	—	In the passenger compartment, part of the brake pedal assembly	—	*B103 Stop Lamp Switch*
B107	Accelerator Pedal Position Sensor	—	In the passenger compartment, part of the accelerator pedal assembly	—	*B107 Accelerator Pedal Position Sensor*
B118B	Windshield Washer Fluid Level Switch	—	On the vehicle exterior, behind the right side of the front fascia, mounted on the washer fluid reservoir	—	*B118B Windshield Washer Fluid Level Switch*
B119	Multi-axis Acceleration Sensor	—	In the passenger compartment, below the center console, mounted to the floor	—	*B119 Multi-axis Acceleration Sensor*
B137	Power Steering Shaft Torque Sensor	—	In the passenger compartment, below the left side of the instrument panel, mounted left of the steering shaft	—	—
B150	Fuel Tank Pressure Sensor	—	On the vehicle underbody, right side, on the EVAP canister	—	*B150 Fuel Tank Pressure Sensor*
B153D	Seat Belt Buckle - Driver	—	In the passenger compartment, on the right side of the driver seat	*Driver Seat Components*	*B153D Seat Belt Buckle - Driver*
B153P	Seat Belt Buckle - Passenger	—	In the passenger compartment, on the left side of the passenger seat	*Passenger Seat Components*	*B153P Seat Belt Buckle - Passenger*
C1	Battery	—	In the engine compartment, left rear	*Engine Compartment Components*	—
C9	Ignition Coil Capacitor	—	In the engine compartment, on top of the engine	—	*C9 Ignition Coil Capacitor*
E4LR	Turn Signal Lamp - Left Rear	—	On the vehicle exterior, at the rear of the vehicle, in the left tail lamp assembly	—	*E4LR Turn Signal Lamp - Left Rear*
E4RR	Turn Signal Lamp - Right Rear	—	On the vehicle exterior, at the rear of the vehicle, in the right tail lamp assembly	—	*E4RR Turn Signal Lamp - Right Rear*
E4N	Park/Turn Signal Lamp - Left	—	On the vehicle exterior, at the front of the vehicle, in the left headlamp assembly	*Front of Vehicle Components*	*E4N Park/Turn Signal Lamp - Left*
E4P	Park/Turn Signal Lamp - Right	—	On the vehicle exterior, at the front of the vehicle, in the right headlamp assembly	—	*E4P Park/Turn Signal Lamp - Right*
E5A	Backup Lamp - Left	—	On the vehicle exterior, at the rear of the vehicle, in the left tail lamp assembly	—	*E5A Backup Lamp - Left*

E5AA	Tail/Stop Lamp - Left	—	On the vehicle exterior, at the rear of the vehicle, in the left tail lamp assembly	—	*E5AA Tail/Stop Lamp - Left*
E5AB	Tail/Stop Lamp - Right	—	On the vehicle exterior, at the rear of the vehicle, in the right tail lamp assembly	—	*E5AB Tail/Stop Lamp - Right*
E5B	Backup Lamp - Right	—	On the vehicle exterior, at the rear of the vehicle, in the right tail lamp assembly	—	*E5B Backup Lamp - Right*
E6	Center High Mounted Stop Lamp	—	On the vehicle exterior, at the rear of the vehicle, on top of the right cargo door	*Luggage Compartment/Rear of Vehicle Component Views*	*E6 Center High Mounted Stop Lamp*
E7L	License Plate Lamp - Left	—	On the vehicle exterior, at the rear of the vehicle, middle of the right cargo door	*Luggage Compartment/Rear of Vehicle Component Views*	*E7L License Plate Lamp - Left*
E7R	License Plate Lamp - Right	—	On the vehicle exterior, at the rear of the vehicle, middle of the right cargo door	*Luggage Compartment/Rear of Vehicle Component Views*	*E7R License Plate Lamp - Right*
E13L	Headlamp - Left	—	On the vehicle exterior, at the front of the vehicle, within the left headlamp assembly	*Front of Vehicle Components*	*E13L Headlamp - Left*
E13LA	Headlamp Assembly - Left	—	On the vehicle exterior, at the front of the vehicle	*Front of Vehicle Components*	—
E13R	Headlamp - Right	—	On the vehicle exterior, at the front of the vehicle, within the right headlamp assembly	—	*E13R Headlamp - Right*
E13RA	Headlamp Assembly - Right	—	On the vehicle exterior, at the front of the vehicle	*Front of Vehicle Components*	—
E17D	Outside Rearview Mirror Glass - Driver	DE5 or DR6	On the vehicle exterior, on the driver door, front middle, part of A9A Outside Rearview-Driver	*Driver Door Components*	—
E17P	Outside Rearview Mirror Glass - Passenger	DE5 or DR6	On the vehicle exterior, on the passenger door, front middle, part of A9B Outside Rearview-Passenger	*Passenger Door Components*	—
E18	Rear Defogger Grid	C49	In the passenger compartment, at the rear of the vehicle, part of the right cargo door glass	• *Cargo Door Components* • *Luggage Compartment/Rear of Vehicle Component Views*	• *E18 Rear Defogger Grid X1 (C49)* • *E18 Rear Defogger Grid X2 (C49)*
E37F	Dome/Reading Lamps - Front	—	In the passenger compartment, front center, at the inside rearview mirror	*Front of Roof Components*	*E37F Dome/Reading Lamps - Front*
E37M	Dome/Reading Lamps - Middle	—	In the passenger compartment, center, in the headliner behind the seats	—	• *E37M Dome/Reading Lamps - Middle X1* • *E37M Dome/Reading Lamps - Middle X2*
E37R	Dome/Reading Lamps - Rear	—	In the passenger compartment, rear, above the cargo door opening	—	• *E37R Dome/Reading Lamps - Rear X1* • *E37R Dome/Reading Lamps - Rear X2*
E42L	Tail Lamp Assembly - Left	—	On the vehicle exterior, at the left rear of the vehicle	*Luggage Compartment/Rear of Vehicle Component Views*	—
E42R	Tail Lamp Assembly - Right	—	On the vehicle exterior, at the right rear of the vehicle	*Luggage Compartment/Rear of Vehicle Component Views*	—

F101	Passenger Instrument Panel Air Bag	—	In the passenger compartment, right front, within the instrument panel	*Instrument Panel Components*	• *F101 Passenger Instrument Panel Air Bag X1* • *F101 Passenger Instrument Panel Air Bag X2*
F105L	Roof Rail Air Bag - Left	—	In the passenger compartment, left middle, mounted to the roof above left door opening	*Roof Rail Air Bags*	*F105L Roof Rail Air Bag - Left*
F105R	Roof Rail Air Bag - Right	—	In the passenger compartment, right middle, mounted to the roof above right door opening	*Roof Rail Air Bags*	*F105R Roof Rail Air Bag - Right*
F106D	Seat Side Air Bag - Driver	—	In the passenger compartment, mounted to the outboard side of driver seat back frame	*Driver Seat Components*	*F106D Seat Air Bag - Driver*
F106P	Seat Side Air Bag - Passenger	—	In the passenger compartment, mounted to the outboard side of passenger seat back frame	*Passenger Seat Components*	*F106P Seat Air Bag - Passenger*
F107	Steering Wheel Air Bag	—	In the passenger compartment, left front, mounted to the center of the steering wheel	*Instrument Panel Components*	• *F107 Steering Wheel Air Bag X1* • *F107 Steering Wheel Air Bag X2*
F112D	Seat Belt Retractor Pretensioner - Driver	—	In the passenger compartment, left side middle, mounted to the base of the B-pillar	*B-Pillar Components*	*F112D Seat Belt Retractor Pretensioner - Driver*
F112P	Seat Belt Retractor Pretensioner - Passenger	—	In the passenger compartment, right side middle, mounted to the base of the B-pillar	*B-Pillar Components*	*F112P Seat Belt Retractor Pretensioner - Passenger*
G1	A/C Compressor	—	In the engine compartment, front lower right of the engine, mounted to the engine block	—	—
G10L	Cooling Fan Motor - Left	—	In the engine compartment, front left of center, mounted to the radiator shroud, behind the radiator	• *Engine Compartment Components* • *Cooling Fans*	*G10L Cooling Fan Motor - Left*
G10R	Cooling Fan Motor - Right	—	In the engine compartment, front right of center, mounted to the radiator shroud, behind the radiator	• *Engine Compartment Components* • *Cooling Fans*	*G10R Cooling Fan Motor - Right*
G12	Fuel Pump	—	On the vehicle underbody, inside the fuel tank, part of A7 Fuel Pump and Level Sensor Assembly	—	—
G13	Generator	—	In the engine compartment, front right of the engine, mounted to the engine block	*Engine Compartment Components*	• *G13 Generator X1* • *G13 Generator X2*
G24	Windshield Washer Pump	—	On the vehicle exterior, behind the right side of the front fascia, mounted on the bottom of the washer fluid reservoir	—	*G24 Windshield Washer Pump*
K9	Body Control Module	—	In the passenger compartment, right front, behind the instrument panel, below the passenger instrument panel air bag	*Instrument Panel Components*	• *K9 Body Control Module X1* • *K9 Body Control Module X2* • *K9 Body Control Module X3*
K17	Electronic Brake Control Module	—	In the engine compartment, right rear of the engine, mounted to the bulkhead	*Engine Compartment Components*	*K17 Electronic Brake Control Module*
K20	Engine Control Module	—	In the engine compartment, right rear, behind the battery	*Engine Compartment Components*	• *K20 Engine Control Module X1* • *K20 Engine Control Module X2* • *K20 Engine Control Module X3*

K36	Inflatable Restraint Sensing and Diagnostic Module	—	In the passenger compartment, below the center console, mounted to the floor	*Center Console Components*	• *K36 Inflatable Restraint Sensing and Diagnostic Module X1* • *K36 Inflatable Restraint Sensing and Diagnostic Module X2* • *K36 Inflatable Restraint Sensing and Diagnostic Module X3*
K41R	Rear Parking Assist Control Module	UD7	In the passenger compartment, right front, behind the instrument panel, lower left of the glove box	—	*K41R Rear Parking Assist Control Module (UD7)*
K43	Power Steering Control Module	—	In the passenger compartment, behind the instrument panel to the left of the steering column	*Instrument Panel Components*	• *K43 Power Steering Control Module X1* • *K43 Power Steering Control Module X2* • *K43 Power Steering Control Module X3* • *K43 Power Steering Control Module X4*
K65	Tire Pressure Indicator Module	—	In the passenger compartment, right front, behind the instrument panel, behind the glove box	—	*K65 Tire Pressure Indicator Module*
K71	Transmission Control Module	—	In the engine compartment, right side, in front of the battery	• *Engine Compartment Components* • *Automatic Transmission Electronic Components*	*K71 Transmission Control Module*
K77	Remote Control Door Lock Receiver	—	In the passenger compartment, right front, behind the instrument panel, to the upper left of the glove box	*Instrument Panel Components*	*K77 Remote Control Door Lock Receiver*
K82	Mobile Telephone Control Module	UPF	In the passenger compartment, right front, behind the instrument panel, to the right of the glove box	—	• *K82 Mobile Telephone Control Module X1 (UPF)* • *K82 Mobile Telephone Control Module X2 (UPF)* • *K82 Mobile Telephone Control Module X3 (UPF)*
K85	Passenger Presence Module	—	In the passenger compartment, right side, under passenger seat, attached to passenger seat frame	*Passenger Seat Components*	*K85 Passenger Presence Module*
K89	Immobilizer Control Module	—	In the passenger compartment, left front, within steering column, near ignition lock cylinder housing	—	*K89 Immobilizer Control Module*
M7	Transmission Shift Lock Control Solenoid Actuator	—	In the passenger compartment, part of the transmission shift lever assembly	—	—
M8	Blower Motor	—	In the passenger compartment, right front, under the instrument panel, mounted on left side of the HVAC unit assembly	*HVAC Under Instrument Panel Components*	*M8 Blower Motor*
M13	Door Latch Assembly - Rear Cargo	—	In the passenger compartment, inside the right rear cargo door	—	*M13 Door Latch Assembly - Rear Cargo*
M14C	Door Lock Actuator -Rear Cargo	—	In the passenger compartment, inside the right rear cargo door, part of M13 Door Latch Assembly-Rear Cargo	—	—

M14D	Door Lock Actuator - Driver	—	In the passenger compartment, inside the driver door, part of A23D Door Latch Assembly-Driver	—	—
M14E	Door Lock Actuator - Left Sliding	—	In the passenger compartment, inside the left sliding door, at the rear of the door, part of X87LD Sliding Door Contact Plate - Left Door	—	—
M14F	Door Lock Actuator - Right Sliding	—	In the passenger compartment, inside the right sliding door, at the rear of the door, part of X87RD Sliding Door Contact Plate - Right Door	—	—
M14P	Door Lock Actuator - Passenger	—	In the passenger compartment, inside the passenger door, part of A23P Door Latch Assembly-Passenger	—	—
M38	Power Steering Motor	—	In the passenger compartment, left front, behind the instrument panel, above the steering column	—	—
M64	Starter Motor	—	In the engine compartment, left front of the engine, mounted to the transmission bell housing	—	• *M64 Starter Motor X1* • *M64 Starter Motor X2*
M74D	Window Motor - Driver	—	In the passenger compartment, inside the driver door, at the middle of the door	—	*M74D Window Motor - Driver*
M74P	Window Motor - Passenger	—	In the passenger compartment, inside the passenger door, at the middle of the door	—	*M74P Window Motor - Passenger*
M75	Windshield Wiper Motor	—	In the engine compartment, left side, near the brake master cylinder	—	*M75 Windshield Wiper Motor*
M77D	Outside Rearview Mirror Motor - Driver	—	On the vehicle exterior, on the driver door, front middle, within the driver outside rearview mirror	—	—
M77P	Outside Rearview Mirror Motor - Passenger	—	On the vehicle exterior, on the passenger door, front middle, within the passenger outside rearview mirror	—	—
P12	Horn	—	On the vehicle exterior, at the front of the vehicle, behind the grille, left of the hood latch assembly	*Engine Compartment Components*	• *P12 Horn X1* • *P12 Horn X2*
P14	Passenger Air Bag Disabled Indicator	—	In the passenger compartment, lower middle of the instrument panel, in the transmission shifter bezel, right side top	—	*P14 Passenger Air Bag Disabled Indicator*
P16	Instrument Cluster	—	In the passenger compartment, left front, in the instrument panel, above the steering column	*Instrument Panel Components*	*P16 Instrument Cluster*
P19AG	Speaker - Left Front Door	—	In the passenger compartment, inside the driver door, at the lower front of the door, behind the trim panel	*Driver Door Components*	*P19AG Speaker - Left Front Door*
P19AH	Speaker - Right Front Door	—	In the passenger compartment, inside the passenger door, at the lower front of the door, behind the trim panel	*Passenger Door Components*	*P19AH Speaker - Right Front Door*
P28	Speaker - Parking Assist	UD7	In the passenger compartment, behind the left of the instrument panel, to the right of the instrument cluster	—	—
Q2	A/C Compressor Clutch	—	In the engine compartment, front lower right of the engine, mounted to the engine block	—	*Q2 A/C Compressor Clutch*

Q6F	Camshaft Position Actuator Solenoid Valve - Intake	—	In the engine compartment, top right of the engine, mounted to the cylinder head, below the camshaft	*Top of the Engine Components*	*Q6F Camshaft Position Actuator Solenoid Valve – Intake*
Q8	Control Solenoid Valve Assembly	—	In the engine compartment, inside the automatic transmission, underneath the transmission fluid pan	*Automatic Transmission Electronic Components*	—
Q12	Evaporative Emission Purge Solenoid Valve	—	In the engine compartment, rear of the engine, at the throttle body	*Top of the Engine Components*	*Q12 Evaporative Emission Purge Solenoid Valve*
Q13	Evaporative Emission Vent Solenoid Valve	—	On the vehicle underbody, rear the right front wheel, on the EVAP canister	—	*Q13 Evaporative Emission Vent Solenoid Valve*
Q17A	Fuel Injector 1	—	In the engine compartment, top of the engine, at #1 cylinder of the cylinder head	• *Top of the Engine Components* • *Left Front of the Engine Components*	*Q17A Fuel Injector 1*
Q17B	Fuel Injector 2	—	In the engine compartment, top of the engine, at #2 cylinder of the cylinder head	• *Top of the Engine Components* • *Left Front of the Engine Components*	*Q17B Fuel Injector 2*
Q17C	Fuel Injector 3	—	In the engine compartment, top of the engine, at #3 cylinder of the cylinder head	• *Top of the Engine Components* • *Left Front of the Engine Components*	*Q17C Fuel Injector 3*
Q17D	Fuel Injector 4	—	In the engine compartment, top of the engine, at #4 cylinder of the cylinder head	• *Top of the Engine Components* • *Left Front of the Engine Components*	*Q17D Fuel Injector 4*
Q23	Line Pressure Control Solenoid Valve	—	In the engine compartment, inside the automatic transmission, part of the control solenoid valve assembly	—	—
Q27A	Pressure Control Solenoid Valve 1	—	In the engine compartment, inside the automatic transmission, part of the control solenoid valve assembly	—	—
Q27B	Pressure Control Solenoid Valve 2	—	In the engine compartment, inside the automatic transmission, part of the control solenoid valve assembly	—	—
Q38	Throttle Body	—	In the engine compartment, left rear of the engine	*Top of the Engine Components*	*Q38 Throttle Body*
Q39A	Torque Converter Clutch Pressure Control Solenoid Valve	—	In the engine compartment, inside the automatic transmission, part of the control solenoid valve assembly	—	—
Q39B	Torque Converter Clutch Enable Solenoid Valve	—	In the engine compartment, inside the automatic transmission, part of the control solenoid valve assembly	—	—
R3	Blower Motor Resistor	—	In the passenger compartment, left front footwell area, on the HVAC case, near the accelerator pedal	*HVAC Under Instrument Panel Components*	*R3 Blower Motor Resistor*
S3	Transmission Shift Lever	—	In the passenger compartment, bottom middle of the instrument panel, forward of the center console	*Instrument Panel Components*	*S3 Transmission Shift Lever*
S7	Cruise Control Brake Switch	K34	In the passenger compartment, on the brake pedal assembly bracket	—	*S7 Cruise Control Brake Switch (K34)*
S26	Hazard Warning Switch	—	In the passenger compartment, lower middle, in the shift plate bezel, top left of the shifter	—	*S26 Hazard Warning Switch*

S33	Horn Switch	—	In the passenger compartment, left front, within the steering wheel, forward of the driver air bag	—	—
S39	Ignition Switch	—	In the passenger compartment, left front, within the right side of the steering column, mounted to lock cylinder housing	—	*S39 Ignition Switch*
S52	Outside Rearview Mirror Switch	—	In the passenger compartment, left front, on the left side of the instrument panel	—	*S52 Outside Rearview Mirror Switch*
S70L	Steering Wheel Controls Switch - Left	—	In the passenger compartment, left front, on the left side of the steering wheel	*Instrument Panel Components*	—
S70R	Steering Wheel Controls Switch - Right	—	In the passenger compartment, left front, on the right side of the steering wheel	*Instrument Panel Components*	—
S75	Traction Control Switch	—	In the passenger compartment, left front, left side of the instrument panel at the S52 Outside Rearview Mirror Switch	—	*S75 Traction Control Switch*
S78	Turn Signal/Multifunction Switch	—	In the passenger compartment, left front, within the steering column, forward of the steering wheel, on left side	—	*S78 Turn Signal/Multifunction Switch*
S101D	Door Lock/Window Switch - Driver	—	In the passenger compartment, in the driver door trim panel, mounted to the driver door trim plate, below the release handle	*Driver Door Components*	*S101D Door Lock/Window Switch - Driver*
S101P	Door Lock/Window Switch - Passenger	—	In the passenger compartment, in the passenger door trim panel, mounted to the passenger door trim plate, below the release handle	*Passenger Door Components*	*S101P Door Lock/Window Switch - Passenger*
S107	Parking Assist On/Off Switch	UD7	In the passenger compartment, in the front of the center console, below the transmission shift lever	—	*S107 Parking Assist On/Off Switch (UD7)*
T4H	Digital Radio Antenna	—	On the vehicle exterior, front, mounted on the roof, above the windshield	*Front of Roof Components*	• *T4H Digital Radio Antenna (U1B)* • *T4H Digital Radio Antenna X1 (CWM)* • *T4H Digital Radio Antenna X2 (CWM)*
T4P	Navigation Antenna	CWM	In the passenger compartment, front center, on top of the instrument panel, under the defroster deflector, center of the instrument panel	—	—
T4S	Wireless Communication Antenna - Bluetooth	UPF	In the passenger compartment, right front, behind the instrument panel, to the right of the glove box	—	—
T8A	Ignition Coil 1	—	In the engine compartment, on the engine, at #1 cylinder of the cylinder head	• *Top of the Engine Components* • *Left Front of the Engine Components*	*T8A Ignition Coil 1*
T8B	Ignition Coil 2	—	In the engine compartment, on the engine, at #2 cylinder of the cylinder head	• *Top of the Engine Components* • *Left Front of the Engine Components*	*T8B Ignition Coil 2*
T8C	Ignition Coil 3	—	In the engine compartment, on the engine, at #3 cylinder of the cylinder head	• *Top of the Engine Components* • *Left Front of the Engine Components*	*T8C Ignition Coil 3*
T8D	Ignition Coil 4	—	In the engine compartment, on the engine, at #4 cylinder of the cylinder head	• *Top of the Engine Components* • *Left Front of the Engine Components*	*T8D Ignition Coil 4*

T12	Automatic Transmission Assembly	—	In the engine compartment, left side	—	—
T14	Immobilizer Antenna Amplifier	Z49	In the passenger compartment, left front, on ignition key cylinder, part of K89 Immobilizer Control Module	—	*T14 Immobilizer Antenna Amplifier (Z49)*
T25	Digital Radio Antenna Amplifier	—	On the vehicle exterior, front, mounted on the roof, above the windshield, part of T4H Digital Radio Antenna	—	—
X50A	Fuse Block - Underhood	—	In the engine compartment, left rear, next to the battery	*Engine Compartment Components*	Electrical Center Identification Views
X50B	Fuse Block - Underhood Auxiliary	—	In the engine compartment, left rear, in front of the battery	*Engine Compartment Components*	Electrical Center Identification Views
X50D	Fuse Block - Battery	—	In the engine compartment, at the battery positive terminal	*Engine Compartment Components*	Electrical Center Identification Views
X51A	Fuse Block - Instrument Panel	—	In the passenger compartment, left side of the instrument panel	—	Electrical Center Identification Views
X70A	Relay Block - Underhood	—	In the engine compartment, left rear, next to the battery	*Engine Compartment Components*	Electrical Center Identification Views
X80H	Accessory Power Receptacle - Center Console	—	In the passenger compartment, in the front of the center console, below the transmission shift lever	*Instrument Panel Components*	*X80H Accessory Power Receptacle - Center Console*
X80L	Accessory Power Receptacle - Center Console Rear	—	In the passenger compartment, in the back of the center console	*Center Console Components*	*X80L Accessory Power Receptacle - Center Console Rear*
X83	Auxiliary Audio Input	—	In the passenger compartment, in the front of the center console, below the transmission shift lever	*Instrument Panel Components*	• *X83 Auxiliary Audio Input (U1B)* • *X83 Auxiliary Audio Input X1 (CWM)* • *X83 Auxiliary Audio Input X2 (CWM)*
X84	Data Link Connector	—	In the passenger compartment, left front, at the bottom of the instrument panel	—	*X84 Data Link Connector*
X85	Steering Wheel Air Bag Coil	—	In the passenger compartment, left front, within the steering column, behind the steering wheel	—	• *X85 Steering Wheel Air Bag Coil X1* • *X85 Steering Wheel Air Bag Coil X2* • *X85 Steering Wheel Air Bag Coil X3*
X87LB	Sliding Door Jamb Contact Plate - Left Body	—	Within the left sliding door opening, attached to the rear of the left B-pillar	—	*X87LB Sliding Door Jamb Contact Plate - Left Body*
X87LD	Sliding Door Jamb Contact Plate - Left Door	—	Within the left sliding door opening, attached to the front of the door	*Left Sliding Door Components*	—
X87RB	Sliding Door Jamb Contact Plate - Right Body	—	Within the right sliding door opening, attached to the rear of the right B-pillar	—	*X87RB Sliding Door Jamb Contact Plate - Right Body*
X87RD	Sliding Door Jamb Contact Plate - Right Door	—	Within the right sliding door opening, attached to the front of the door	*Right Sliding Door Components*	—
X150	Engine Harness to Engine Compartment Harness (48 Cavities)	—	In the engine compartment, left front, below the headlamp	• *Engine Compartment Harness Routing View - Engine Compartment Side* • *Engine Harness Routing View*	*X150 Engine Harness to Engine Compartment Harness*

X175	Engine Harness to Transmission Assembly Harness (22 Cavities)	—	In the engine compartment, on the transmission assembly	*Automatic Transmission Harness Routing View*	*X175 Engine Harness to Transmission Assembly Harness*
X201	Instrument Panel Harness to Engine Compartment Harness (100 Cavities)	—	In the passenger compartment, behind the left side of the instrument panel, near the bulkhead grommet	• *Engine Compartment Harness Routing View – Instrument Panel Side* • *Instrument Panel Harness Routing View*	*X201 Instrument Panel Harness to Engine Compartment Harness*
X202	Instrument Panel Harness to Engine Compartment Harness (2 Cavities)	—	In the passenger compartment, behind the left side of the instrument panel, near the bulkhead grommet	• *Engine Compartment Harness Routing View – Instrument Panel Side* • *Instrument Panel Harness Routing View*	*X202 Instrument Panel Harness to Engine Compartment Harness*
X203	Instrument Panel Harness to Cellular Phone Microphone Harness (4 Cavities)	CWM or UPF	In the passenger compartment, behind the left side of the instrument panel, near the bulkhead grommet	*Instrument Panel Harness Routing View*	*X203 Instrument Panel Harness to Cellular Phone Microphone Harness (CWM or UPF)*
X204	Instrument Panel Harness to Passenger Instrument Panel Airbag Jumper Harness (4 Cavities)	—	In the passenger compartment, right front, within the instrument panel, below the instrument panel air bag	—	*X204 Instrument Panel Harness to Passenger Instrument Panel Airbag Jumper Harness*
X210	Instrument Panel Harness to Radio Antenna Harness (2 Cavities)	—	In the passenger compartment, on the right A-pillar, next to X211	—	*X210 Instrument Panel Harness to Digital Radio Antenna Jumper Harness*
X211	Instrument Panel Harness Coax to Satellite Antenna Harness Coax (1 Cavity)	CWM	In the passenger compartment, on the right A-pillar, next to X210	—	*X211 Instrument Panel Harness COAX to Satellite Antenna Harness COAX (CWM)*
X300	Body Harness to Passenger Seat Harness (8 Cavities)	—	In the passenger compartment, under the passenger seat, next X301	*Body Harness Routing View*	*X300 Body Harness to Passenger Seat Harness*
X301	Body Harness to Passenger Seat Side Air Bag Harness (2 Cavities)	—	In the passenger compartment, under passenger seat	*Body Harness Routing View*	*X301 Body Harness to Passenger Seat Side Air Bag Harness*
X302	Right Sliding Door Harness to Body Harness (4 Cavities)	—	In the passenger compartment, left side, interior bottom of the C-pillar	*Body Harness Routing View*	*X302 Right Sliding Door Harness to Body Harness*
X303	Left Sliding Door Harness to Body Harness (4 Cavities)	—	In the passenger compartment, right side, interior bottom of the C-pillar	*Body Harness Routing View*	*X303 Left Sliding Door Harness to Body Harness*
X304	Headliner Harness to Body Harness (4 Cavities)	—	In the passenger compartment, left rear, behind the air stabilizer vent	*Body Harness Routing View*	*X304 Headliner Harness to Body Harness*
X305	Instrument Panel Harness to Body Harness (32 Cavities)	—	In the passenger compartment, front center, under the center console	• *Body Harness Routing View* • *Instrument Panel Harness Routing View*	*X305 Instrument Panel Harness to Body Harness*
X306	Instrument Panel Harness to Body Harness (8 Cavities)	—	In the passenger compartment, front center, under the center console	• *Body Harness Routing View* • *Instrument Panel Harness Routing View*	*X306 Instrument Panel Harness to Body Harness*
X307	Instrument Panel Harness to Body Harness (24 Cavities)	—	In the passenger compartment, front center, under the center console	• *Body Harness Routing View* • *Instrument Panel Harness Routing View*	*X307 Instrument Panel Harness to Body Harness*

X308	Instrument Panel Harness to Body Harness (4 Cavities)	—	In the passenger compartment, front center, under the center console	• *Body Harness Routing View* • *Instrument Panel Harness Routing View*	*X308 Instrument Panel Harness to Body Harness*
X400	Rear Bumper Harness to Body Harness (8 Cavities)	UD7	Under rear of vehicle, rear of the fuel tank, on the cross rail frame	—	*X400 Rear Jumper Harness to Body Harness (UD7)*
X401	Rear Bumper Harness to Rear Jumper Harness (8 Cavities)	UD7	Under vehicle right rear bumper bar	—	*X401 Rear Bumper Harness to Rear Jumper Harness (UD7)*
X402	Rear Door Harness to Body Harness (16 Cavities)	—	In the passenger compartment, at right rear of vehicle, behind the right rear air stabilizer vent at X420	• *Body Harness Routing View* • *Rear Door Harness Routing View*	*X402 Back Door Harness to Body Harness*
X403	Rear Door Harness to Body Harness (6 Cavities)	—	In the passenger compartment, at right rear of vehicle, behind the right rear air stabilizer vent at X420	• *Body Harness Routing View* • *Rear Door Harness Routing View*	*X403 Back Door Harness to Body Harness*
X410	Left Tail Lamp Assembly Harness to Body Harness (6 Cavities)	—	In the passenger compartment, at left rear of vehicle, behind the left rear air stabilizer vent	*Body Harness Routing View*	*X410 Left Tail Lamp Assembly Harness to Body Harness*
X420	Right Tail Lamp Assembly Harness to Body Harness (6 Cavities)	—	In the passenger compartment, at right rear of vehicle, behind the right rear air stabilizer vent	*Body Harness Routing View*	*X420 Right Tail Lamp Assembly Harness to Body Harness*
X500	Driver Door Harness to Instrument Panel Harness (12 Cavities)	—	In the passenger compartment, left front footwell, in the body behind the kick panel	• *Instrument Panel Harness Routing View* • *Driver Door Harness Routing View*	*X500 Driver Door Harness to Instrument Panel Harness*
X501	Driver Door Harness to Instrument Panel Harness (12 Cavities)	—	In the passenger compartment, left front footwell, in the body behind the kick panel	• *Instrument Panel Harness Routing View* • *Driver Door Harness Routing View*	*X501 Driver Door Harness to Instrument Panel Harness*
X502	Driver Door Harness to Instrument Panel Harness (6 Cavities)	—	In the passenger compartment, left front footwell, in the body behind the kick panel	• *Instrument Panel Harness Routing View* • *Driver Door Harness Routing View*	*X502 Driver Door Harness to Instrument Panel Harness*
X510	X510 Driver Door Harness to Driver Outside Rearview Mirror Extension	—	In the passenger compartment, inside the driver door, behind the trim panel	*Driver Door Harness Routing View*	*X510 Driver Door Harness to Driver Outside Rearview Mirror Extension*
X600	Passenger Door Harness to Instrument Panel Harness (6 Cavities)	—	In the passenger compartment, right front footwell, in the body behind the kick panel	• *Instrument Panel Harness Routing View* • *Passenger Door Harness Routing View*	*X600 Passenger Door Harness to Instrument Panel Harness*
X601	Passenger Door Harness to Instrument Panel Harness (12 Cavities)	—	In the passenger compartment, right front footwell, in the body behind the kick panel	• *Instrument Panel Harness Routing View* • *Passenger Door Harness Routing View*	*X601 Passenger Door Harness to Instrument Panel Harness*
X602	Passenger Door Harness to Instrument Panel Harness (6 Cavities)	—	In the passenger compartment, right front footwell, in the body behind the kick panel	• *Instrument Panel Harness Routing View* • *Passenger Door Harness Routing View*	*X602 Passenger Door Harness to Instrument Panel Harness*

X610	X610 Passenger Door Harness to Passenger Outside Rearview Mirror Extension	—	In the passenger compartment, inside the passenger door, behind the trim panel	*Passenger Door Harness Routing View*	*X610 Passenger Door Harness to Passenger Outside Rearview Mirror Extension*
X905	License Plate Harness to Rear Door Harness (2 Cavities)	—	In the passenger compartment, right rear, cargo door center	*Rear Door Harness Routing View*	*X905 License Plate Harness to Back Door Harness*
X906	Rear Defogger Harness to Rear Door Harness (2 Cavities)	—	In the passenger compartment, right rear, cargo door top right, on lock at X905	*Rear Door Harness Routing View*	*X906 Rear Defogger Harness to Back Door Harness*
X907	Rear Door Extension Harness to Rear Door Harness (2 Cavities)	—	In the passenger compartment, right rear, cargo door top right, on lock at X906	*Rear Door Harness Routing View*	*X907 Back Door Extension Harness to Back Door Harness*
G100	Battery Harness	—	In the engine compartment, below the battery	—	—
G101	Engine Compartment Harness	—	In the engine compartment, right front, near the coolant reservoir tank	*G101, G102*	—
G102	Engine Compartment Harness	—	In the engine compartment, left, between the front of the left strut tower and the underhood fuse block	*G101, G102*	—
G103	Engine Compartment Harness	—	In the engine compartment, left, mounted left of the underhood fuse block	*G103, G104, G105*	—
G104	Engine Compartment Harness	—	In the engine compartment, right rear, on the right strut tower, near the electronic brake control module	*G103, G104, G105*	—
G105	Engine Compartment Harness	—	In the engine compartment, left, in front of the underhood fuse block	*G103, G104, G105*	—
G106	Engine Harness	—	In the engine compartment, right, below the a/c service port	*G106, G107*	—
G107	Engine Harness	—	In the engine compartment, right front, front of the engine, near the generator	*G106, G107*	—
G108	Generator Harness	—	In the engine compartment, right front, front of the engine, under the upper radiator hose	—	—
G201	Instrument Panel Harness	—	In the passenger compartment, left side, under the instrument panel	• *G201, G202, G203, G204* • *Ground Views*	—
G202	Instrument Panel Harness	—	In the passenger compartment, right middle, under the instrument panel	*G201, G202, G203, G204*	—
G203	Instrument Panel Harness	—	In the passenger compartment, left side, under the instrument panel	*G201, G202, G203, G204*	—
G204	Instrument Panel Harness	—	In the passenger compartment, left side, under the instrument panel	*G201, G202, G203, G204*	—
G205	Instrument Panel Harness	—	In the passenger compartment, right side, under the instrument panel	*G205*	—
G301	Body Harness	—	In the passenger compartment, at the bottom of the left B-pillar	*G301, G302, G303, G304*	—
G302	Body Harness	—	In the passenger compartment, left rear, near the wheel well	*G301, G302, G303, G304*	—

G303	Body Harness	—	In the passenger compartment, at the bottom of the right B-pillar	*G301, G302, G303, G304*	—
G304	Body Harness	—	In the passenger compartment, at the bottom of the left B-pillar	*G301, G302, G303, G304*	—
G305	Body Harness	—	In the passenger compartment, right rear, near the wheel well	*G305, G307, G901*	—
G307	Body Harness	—	In the passenger compartment, at the bottom of the right B-pillar	*G305, G307, G901*	—
G901	Back Door Harness	—	In the passenger compartment, rear, inside the right cargo door, near the breakout for the rearview camera	*G305, G307, G901*	—
J100	Engine Harness	—	In the engine compartment, between the underhood fuse block and the underhood relay block	—	—
J102	Engine Harness	—	In the engine compartment, between the engine control module and G102	—	—
J103	Engine Compartment Harness	—	In the engine compartment, behind the engine, between the engine control module and the X150 inline connector	—	—
J104	Engine Harness	—	In the engine compartment, between the X150 inline connector and the transmission control module, near the park/neutral position switch	—	—
J105	Engine Compartment Harness	—	In the engine compartment, between the underhood fuse block and the X150 inline connector	—	—
J106	Engine Compartment Harness	—	In the engine compartment, between the underhood fuse block and the engine control module	—	—
J107	Engine Harness	—	In the engine compartment, near the fuel injectors	—	—
J108	Engine Harness	—	In the engine compartment, between the X150 inline connector and the ignition coils	—	—
J109	Engine Compartment Harness	—	In the engine compartment, between the underhood fuse block and the X201 inline connector	—	—
J121	Engine Harness	—	In the engine compartment, between the X150 inline connector and the heated oxygen sensors	—	—
J122	Engine Compartment Harness	—	In the engine compartment, between the underhood fuse block, the left cooling fan, and the underhood relay block	—	—
J123	Engine Compartment Harness	—	In the engine compartment, between the underhood fuse block, the right cooling fan, and the underhood relay block	—	—
J124	Engine Compartment Harness	—	In the engine compartment, between the underhood auxiliary fuse block and the right cooling fan	—	—

J125	Engine Compartment Harness	—	In the engine compartment, between the underhood fuse block, the right cooling fan, and the underhood relay block	—	—
J126	Engine Harness	—	In the engine compartment, between the transmission control module, the X175 inline transmission connector, and the speed sensors	—	—
J127	Engine Harness	—	In the engine compartment, between the transmission control module and the X150 inline connector	—	—
J128	Engine Compartment Harness	ATG	In the engine compartment, between the underhood fuse block, the underhood auxiliary fuse block, and the X201 inline connector	—	—
J129	Engine Harness	—	In the engine compartment, between the K20 Engine Control Module, the battery current sensor, and the X150 inline connector	—	—
J130	Engine Harness	—	In the engine compartment, between the K20 Engine Control Module and the underhood fuse block	—	—
J202	Steering Wheel Harness	—	In the passenger compartment, before the steering wheel, between the air bag coil and the steering wheel control switches	—	—
J203	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the instrument panel fuse block and the data link connector, the instrument cluster, and the ignition key in switch	—	—
J204	Instrument Panel Harness	DR6	In the passenger compartment, in the instrument panel, between the instrument panel fuse block and the X501 and X601 door inline connectors	—	—
J205	Instrument Panel Harness	K34	In the passenger compartment, in the instrument panel, between the instrument panel fuse block, the instrument cluster, and the X201 inline connector	—	—
J206	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the body control module and the X201 and X305 inline connectors	—	—
J207	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the body control module and the X201 and X305 inline connectors	—	—
J209	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the steering wheel angle sensor, the multi-axis acceleration sensor, and the X201 inline connector	—	—
J210	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the instrument panel fuse block, the tire pressure indicator module, the body control module, and the X201 inline connector	—	—
J211	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the body control module and the X500 and X600 door inline connectors	—	—

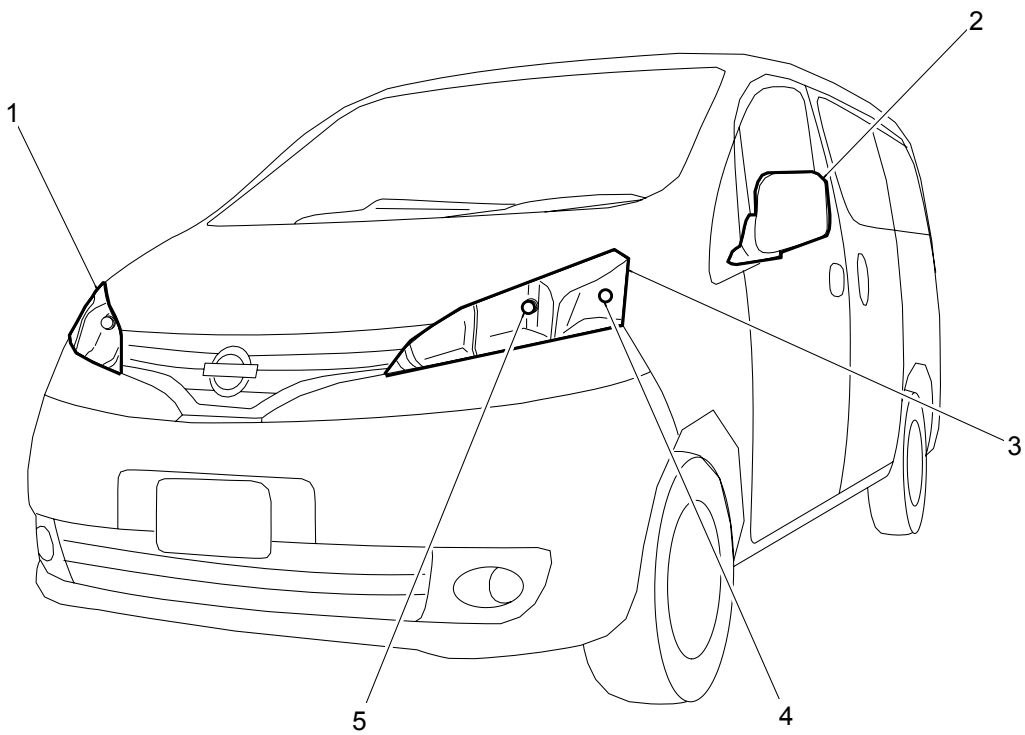
J212	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the body control module and the X501 and X601 door inline connectors	—	—
J213	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the body control module and the X501 and X601 door inline connectors	—	—
J214	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the instrument panel fuse block, the evaporator temperature sensor, and the HVAC controls	—	—
J215	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the data link connector and the X201 and X307 inline connectors	—	—
J216	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the blower motor, the blower motor resister	—	—
J217	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the body control module and the X306 and X600 inline connectors	—	—
J218	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the body control module and X306 inline connector	—	—
J219	Steering Wheel Harness	—	In the passenger compartment, before the steering wheel, between the air bag coil and the steering wheel control switches	—	—
J220	Steering Wheel Harness	—	In the passenger compartment, before the steering wheel, between the air bag coil and the steering wheel control switches	—	—
J221	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the instrument panel fuse block and the blower motor	—	—
J222	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the ignition switch and the instrument panel fuse block	—	—
J224	Instrument Panel Harness	UPF	In the passenger compartment, in the instrument panel, near the mobile telephone control module	—	—
J225	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the body control module, the hazard warning switch, and the tire pressure indicator module	—	—
J226	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the radio and the X201 and X306 inline connectors	—	—
J227	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the body control module and the X201 and X305 inline connectors	—	—
J231	Instrument Panel Harness	UPF	In the passenger compartment, in the instrument panel, between the radio, the mobile telephone control mobile, and the X201 inline connector	—	—

J232	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the instrument panel fuse block, the instrument cluster, and the X201 inline connector	—	—
J235	Instrument Panel Harness	UPF	In the passenger compartment, in the instrument panel, between the radio, the mobile telephone control mobile, and the instrument cluster	—	—
J236	Instrument Panel Harness	—	In the passenger compartment, in the instrument panel, between the instrument panel fuse block, and the instrument cluster	—	—
J237	Instrument Panel Harness	UD7	In the passenger compartment, in the instrument panel, between JX202 and the S107 Parking Assist On/Off Switch	—	—
J301	Body Harness	—	In the passenger compartment, between the inflatable restraint sensing and diagnostic module, the driver seat belt buckle, and the X305 inline connector	*Body Harness Routing View*	—
J302	Body Harness	—	In the passenger compartment, rear, between the tail lamp assemblies, JX202, and the X900 inline connector	—	—
J303	Body Harness	—	In the passenger compartment, rear, between the tail lamp assemblies and the X306 and X900 inline connectors	*Body Harness Routing View*	—
J304	Body Harness	—	In the passenger compartment, rear, between the tail lamp assemblies, the rear parking assist control module, and the X201 inline connector	*Body Harness Routing View*	—
J305	Body Harness	—	In the passenger compartment, between the overhead console dome/reading lamp, and the X304 and X305 inline connectors	*Body Harness Routing View*	—
J306	Body Harness	—	In the passenger compartment, between the overhead console dome/reading lamp, and the X304 and X305 inline connectors	*Body Harness Routing View*	—
J307	Body Harness	—	In the passenger compartment, between the inflatable restraint sensing and diagnostic module, the left middle side impact sensor and the left roof rail air bag	*Body Harness Routing View*	—
J308	Body Harness	—	In the passenger compartment, between the inflatable restraint sensing and diagnostic module, the right middle side impact sensor and the right roof rail air bag	*Body Harness Routing View*	—
J310	Body Harness	—	In the passenger compartment, between the body control module and the X500 and X600 door inline connectors	—	—
J311	Body Harness	—	In the passenger compartment, between the sliding door contact plates and the X901 and X306 inline connectors	*Body Harness Routing View*	—
J312	Body Harness	—	In the passenger compartment, between the sliding door contact plates and the X306 inline connector	*Body Harness Routing View*	—
J313	Body Harness	—	In the passenger compartment, 93mm from the breakout for G301	*Body Harness Routing View*	—

J314	Body Harness	—	In the passenger compartment, 60mm from the breakout for G307	*Body Harness Routing View*	—
J400	Rear Bumper Harness	UD7	Vehicle exterior, rear, between the rear object sensors and the X401 inline connector	—	—
J401	Rear Bumper Harness	UD7	Vehicle exterior, rear, between the rear object sensors and the X401 inline connector	—	—
J500	Driver Door Harness	—	In the passenger compartment, left, inside the driver door	—	—
J900	Rear Door Harness	—	In the passenger compartment, right rear, inside the right cargo door	—	—
J901	License Plate Harness	—	Vehicle exterior, in the rear cargo door, between the license plate lamps and the X905 inline connector	—	—
JX101	Engine Compartment Harness	—	In the engine compartment, rear center, taped to the harness	—	*JX101 Engine Compartment Harness*
JX102	Engine Harness	—	In the engine compartment, at the breakout for the engine control module, taped to the harness	*Engine Harness Routing View*	*JX102 Engine Harness*
JX200	Engine Compartment Harness	—	In the passenger compartment, under the left side of the instrument panel, near the bulkhead grommet, taped to the harness at X201	*Engine Compartment Harness Routing View – Instrument Panel Side*	*JX200 Engine Compartment Harness*
JX201	Instrument Panel Harness	—	In the passenger compartment, under the left side of the instrument panel, behind the instrument cluster, taped to the harness next to JX202 and JX203	*Instrument Panel Harness Routing View*	*JX201 Instrument Panel Harness*
JX202	Instrument Panel Harness	—	In the passenger compartment, under the left side of the instrument panel, behind the instrument cluster, taped to the harness next to JX201 and JX203	*Instrument Panel Harness Routing View*	*JX202 Instrument Panel Harness*
JX203	Instrument Panel Harness	—	In the passenger compartment, under the left side of the instrument panel, behind the instrument cluster, taped to the harness next to JX201 and JX202	*Instrument Panel Harness Routing View*	*JX203 Instrument Panel Harness*

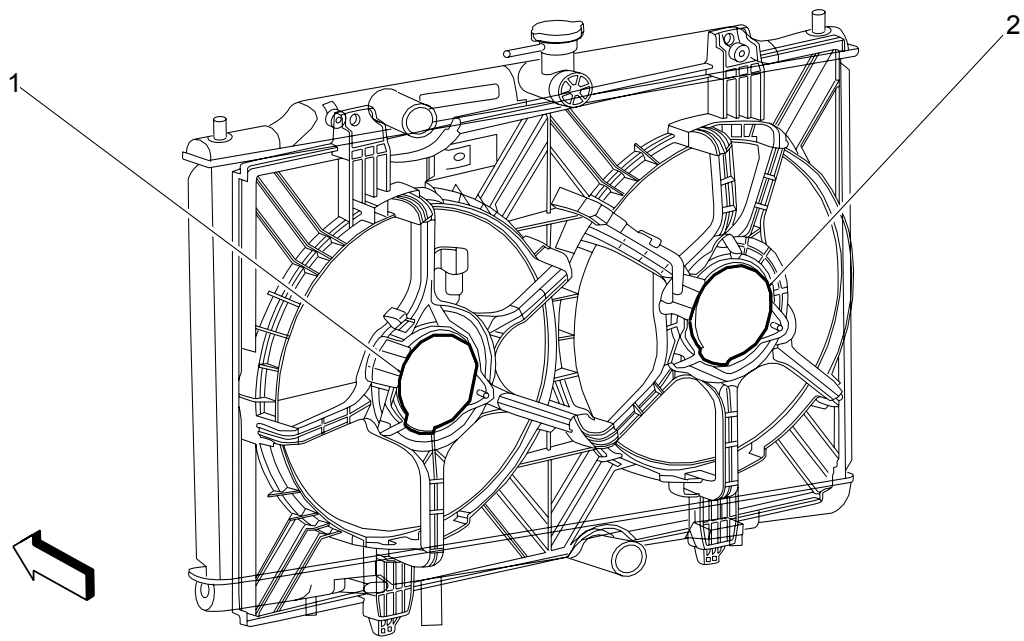
Front of Vehicle/Engine Compartment Component Views

Front of Vehicle Components



Items

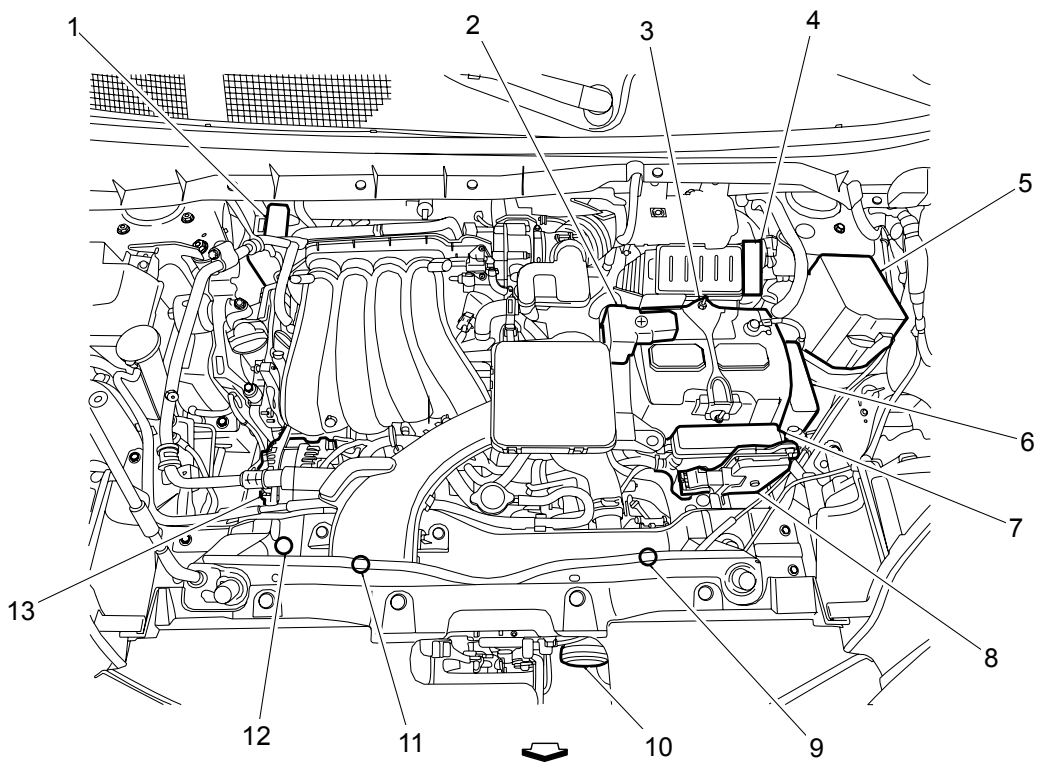
1. E13RA Headlamp Assembly - Right
2. A9B Outside Rearview Mirror - Passenger
3. E13LA Headlamp Assembly - Left
4. E4N Park/Turn Signal Lamp - Left
5. E13L Headlamp - Left



Items

1. G10L Cooling Fan Motor - Left
2. G10R Cooling Fan Motor - Right

Engine Compartment Components

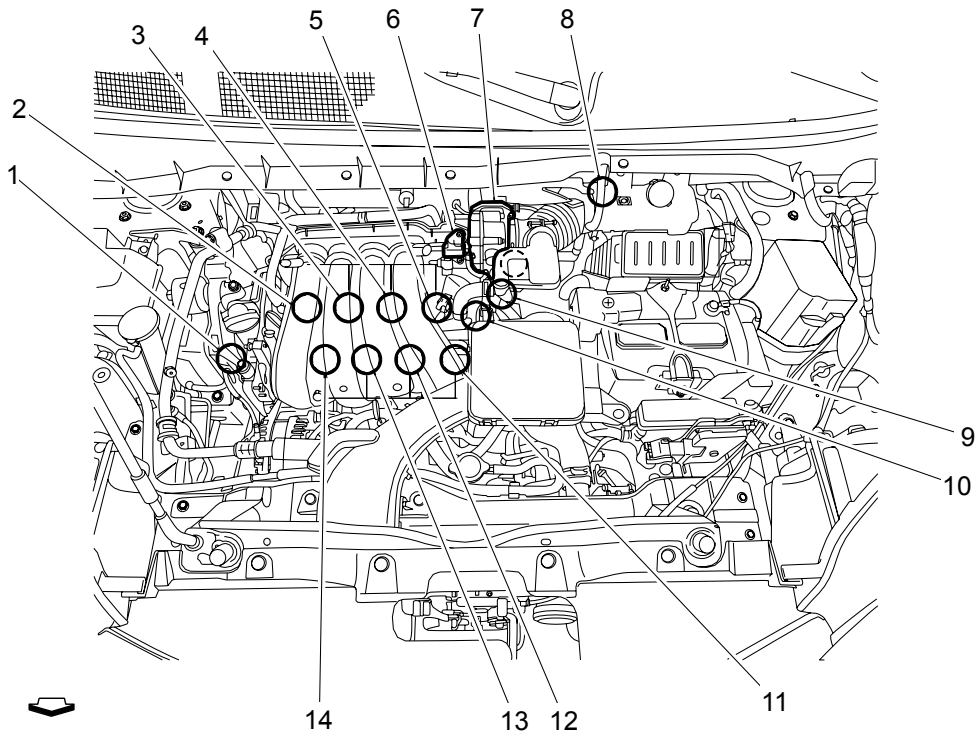


Items

1. K17 Electronic Brake Control Module
2. X50D Fuse Block - Battery
3. C1 Battery
4. K20 Engine Control Module
5. X50A Fuse Block - Underhood
6. X70A Relay Block - Underhood
7. X50B Fuse Block - Underhood Auxiliary
8. K71 Transmission Control Module
9. G10L Cooling Fan Motor - Left
10. P12 Horn
11. G10R Cooling Fan Motor - Right
12. B1 A/C Refrigerant Pressure Sensor
13. G13 Generator

Powertrain Component Views

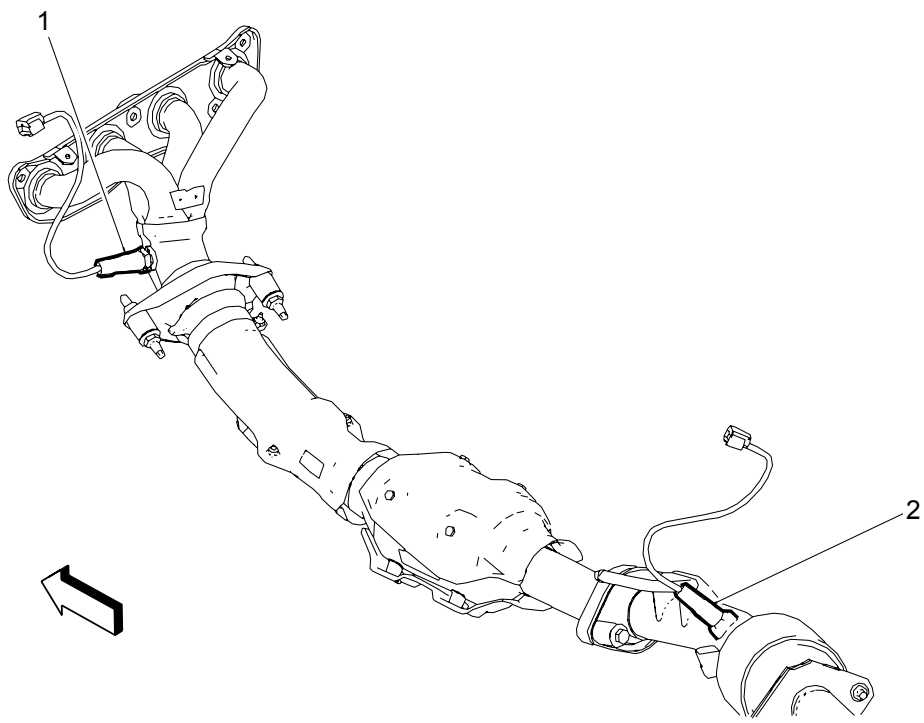
Top of the Engine Components



Items

1. Q6F Camshaft Position Actuator Solenoid Valve - Intake
2. T8A Ignition Coil 1
3. T8B Ignition Coil 2
4. T8C Ignition Coil 3
5. T8D Ignition Coil 4
6. Q12 Evaporative Emission Purge Solenoid Valve
7. Q38 Throttle Body
8. B75 Mass Air Flow Sensor
9. B34 Engine Coolant Temperature Sensor
10. B23 Camshaft Position Sensor
11. Q17D Fuel Injector 4
12. Q17C Fuel Injector 3
13. Q17B Fuel Injector 2
14. Q17A Fuel Injector 1

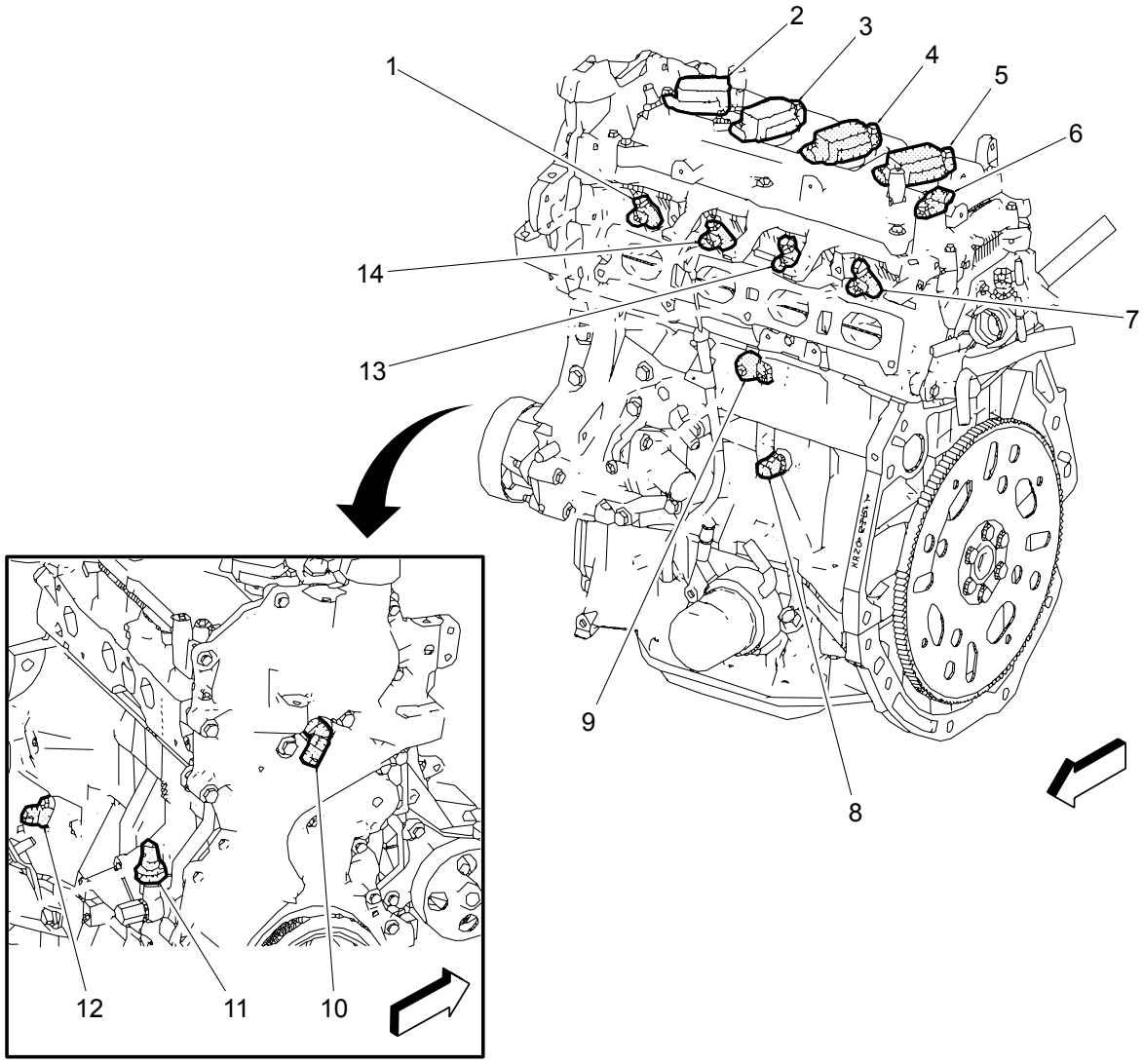
Bottom of the Engine Components



Items

1. B52A Heated Oxygen Sensor 1
2. B52B Heated Oxygen Sensor 2

Left Front of the Engine Components



Items

1. Q17A Fuel Injector 1
2. T8A Ignition Coil 1
3. T8B Ignition Coil 2
4. T8C Ignition Coil 3
5. T8D Ignition Coil 4
6. B23 Camshaft Position Sensor
7. Q17D Fuel Injector 4
8. B36 Engine Oil Temperature Sensor
9. B68 Knock Sensor
10. Q6F Camshaft Position Actuator Solenoid Valve - Intake
11. B37B Engine Oil Pressure Sensor

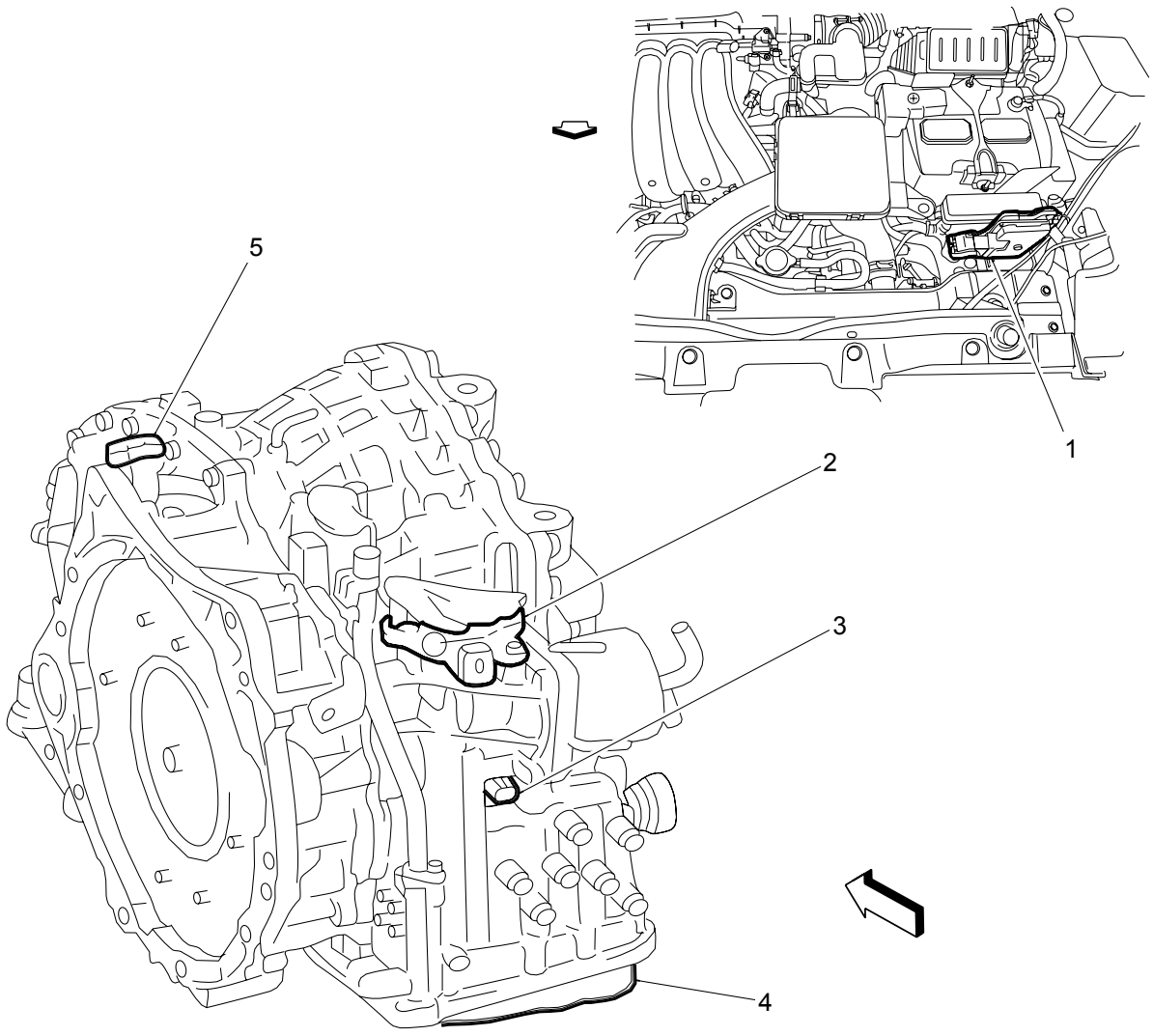
11. B37B Engine Oil Pressure Sensor

12. B26 Crankshaft Position Sensor

13. Q17C Fuel Injector 3

14. Q17B Fuel Injector 2

Automatic Transmission Electronic Components



Items

1. K71 Transmission Control Module

2. B81 Park/Neutral Position Switch

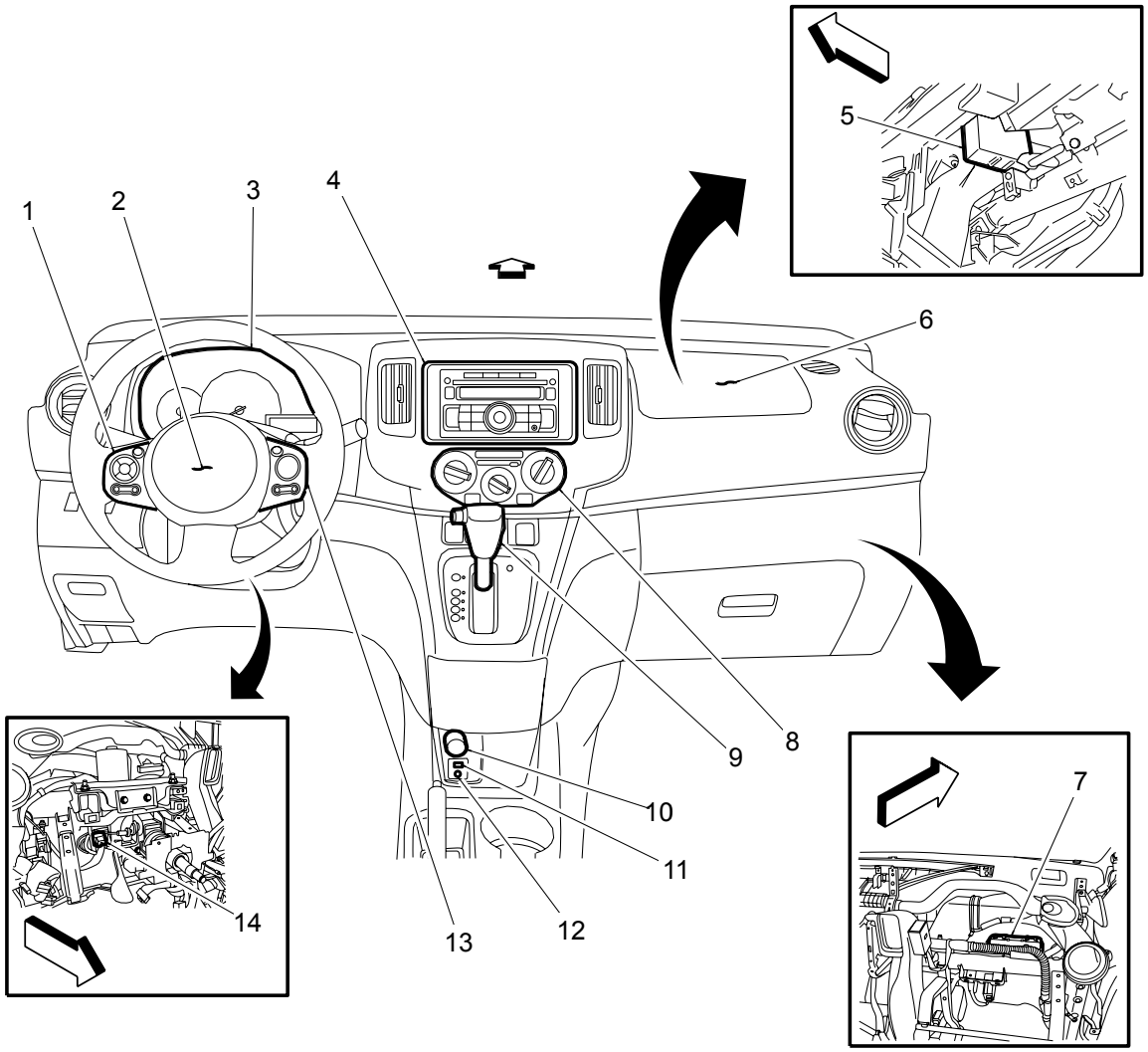
3. B14C Transmission Input Shaft Speed Sensor

4. Q8 Control Solenoid Valve Assembly

5. B14A Transmission Output Shaft Speed Sensor

Instrument Panel/Center Console Component Views

Instrument Panel Components



Items

1. S70L Steering Wheel Controls Switch - Left
2. F107 Steering Wheel Air Bag
3. P16 Instrument Cluster
4. A11 Radio
5. K77 Remote Control Door Lock Receiver
6. F101 Passenger Instrument Panel Air Bag
7. K9 Body Control Module
8. A26 HVAC Controls
9. S3 Transmission Shift Lever
10. X80H Accessory Power Receptacle - Center Console
11. X83 Auxiliary Audio Input

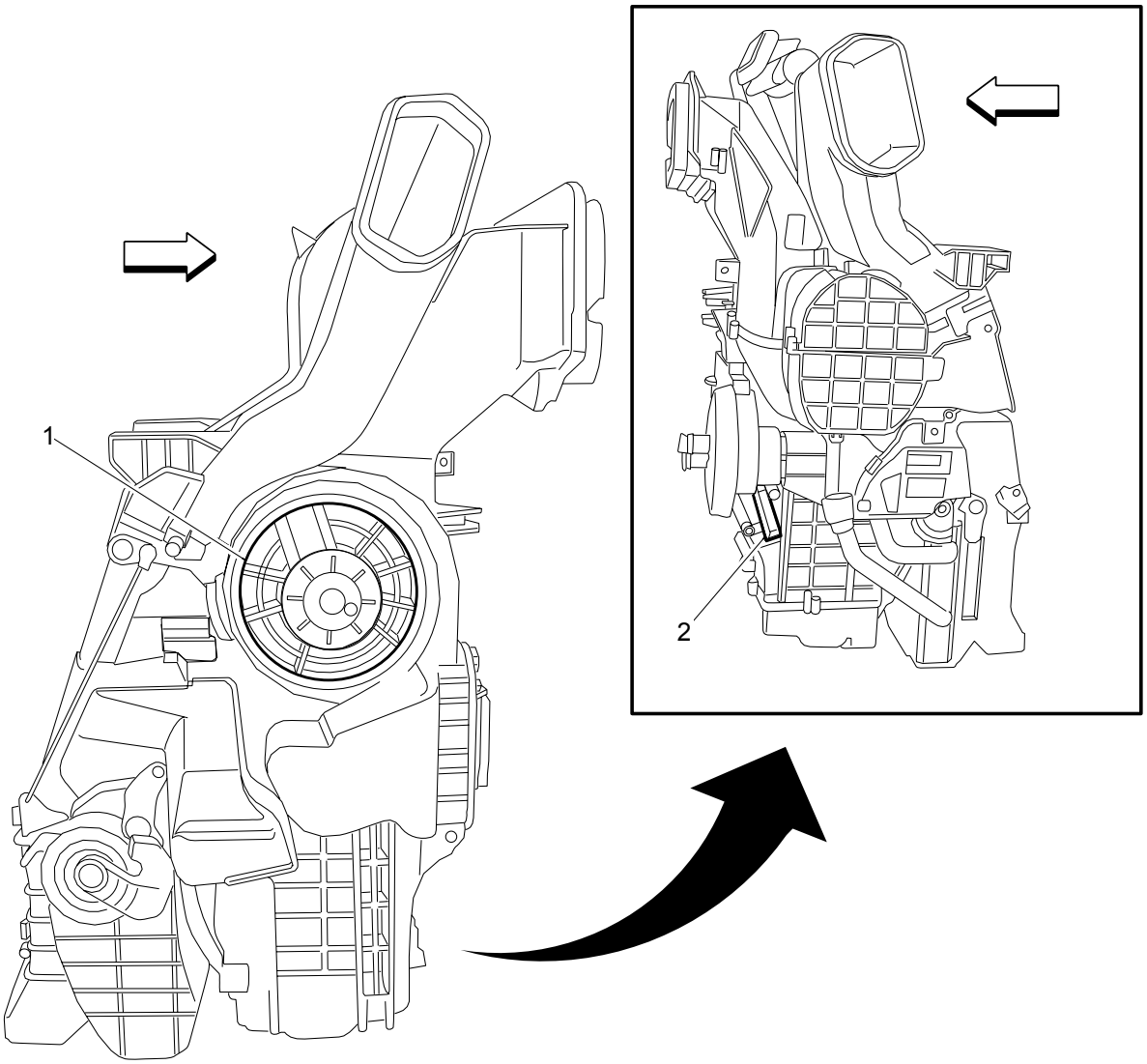
11. X83 Auxiliary Audio Input

12. X83 Auxiliary Audio Input X2 (CWM)

13. S70R Steering Wheel Controls Switch - Right

14. K43 Power Steering Control Module

HVAC Under Instrument Panel Components

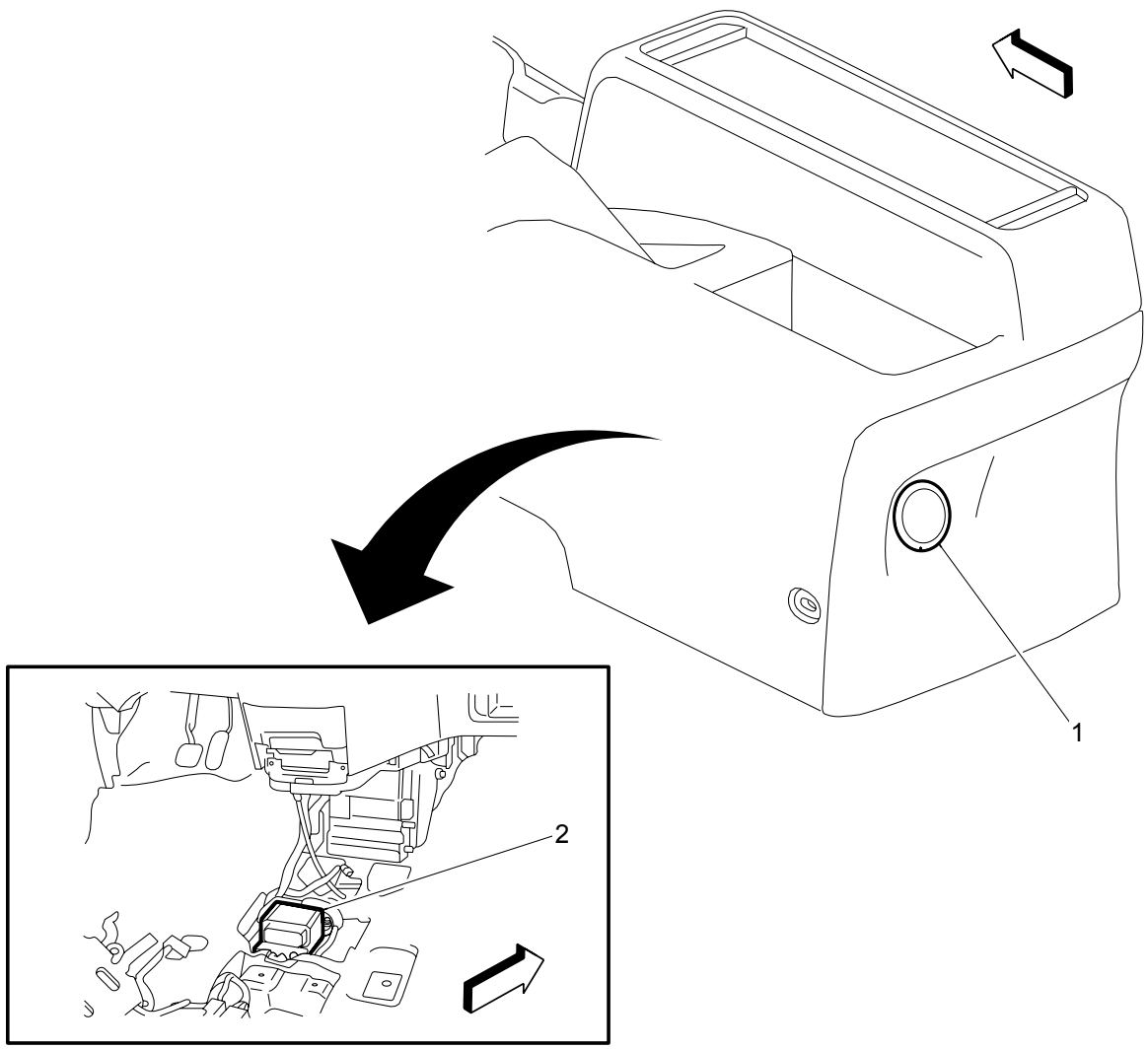


Items

1. M8 Blower Motor

2. R3 Blower Motor Resistor

Center Console Components

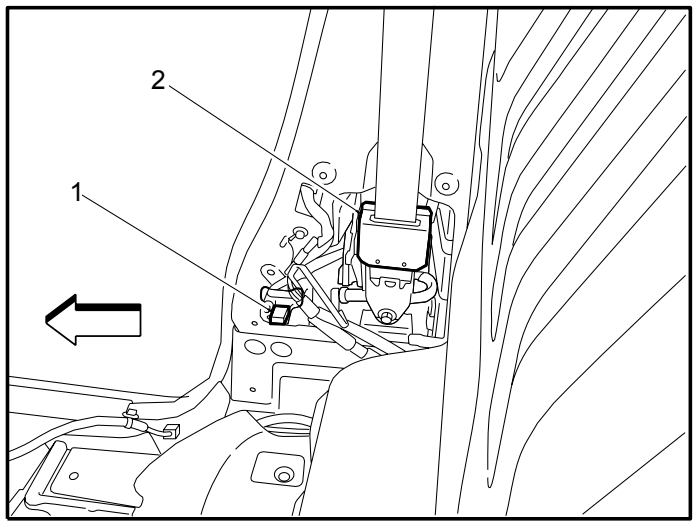


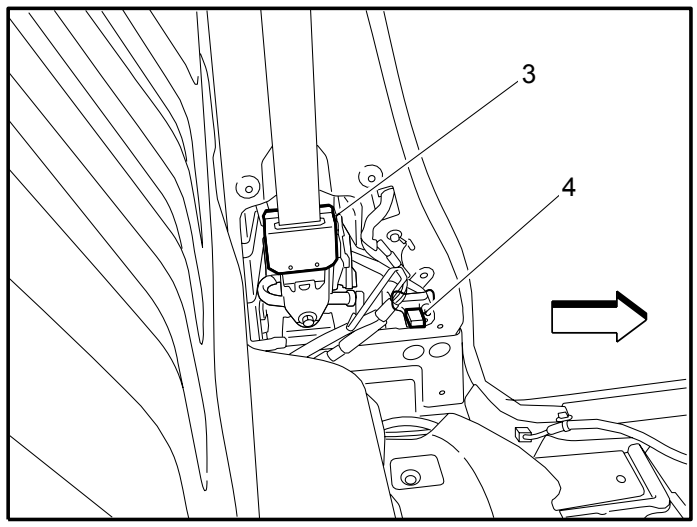
Items

1. X80L Accessory Power Receptacle - Center Console Rear
2. K36 Inflatable Restraint Sensing and Diagnostic Module

Passenger Compartment/Roof Component Views

B-Pillar Components

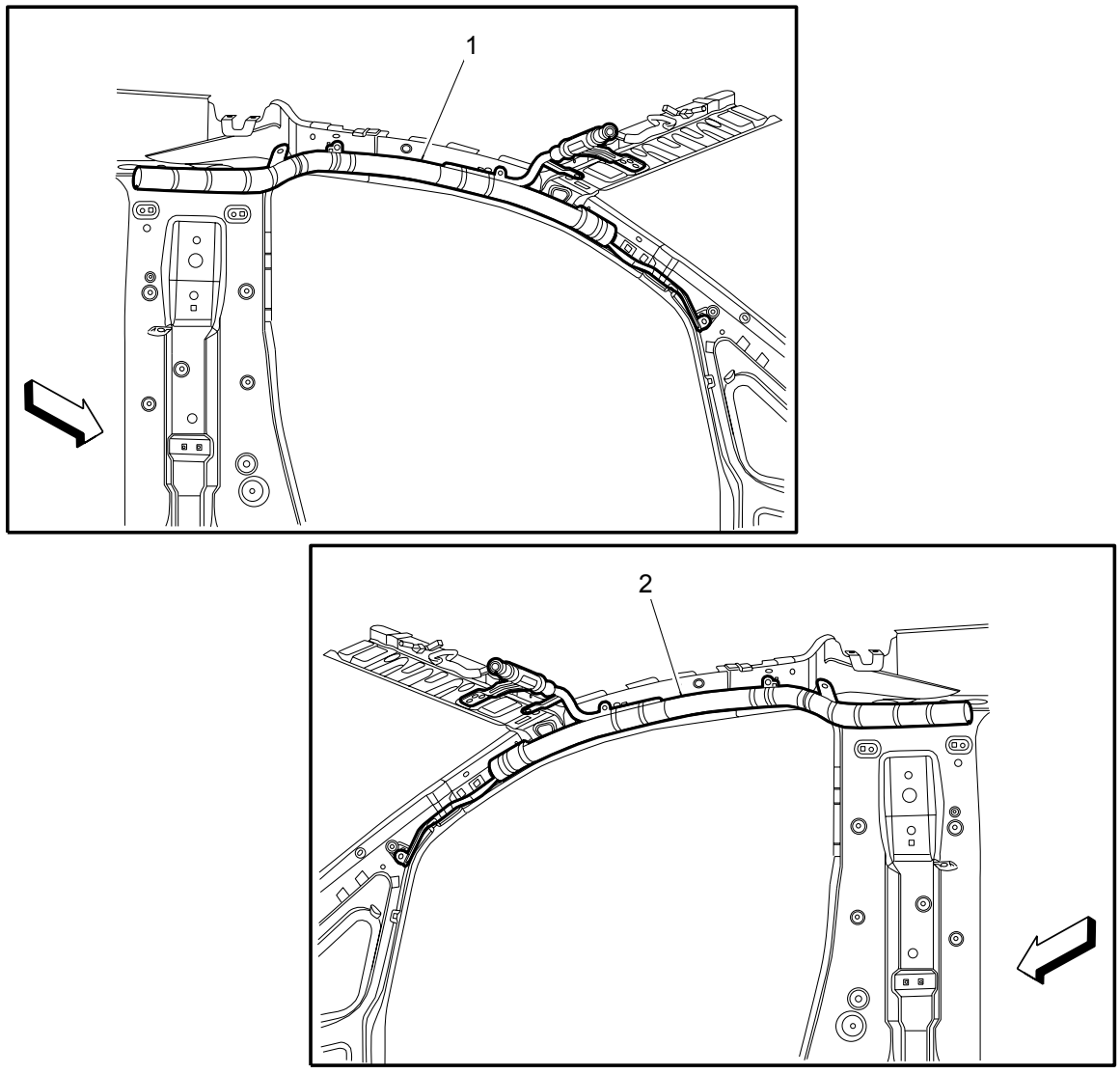




Items

1. B63RM Side Impact Sensor - Right Middle
2. F112P Seat Belt Retractor Pretensioner - Passenger
3. F112D Seat Belt Retractor Pretensioner - Driver
4. B63LM Side Impact Sensor - Left Middle

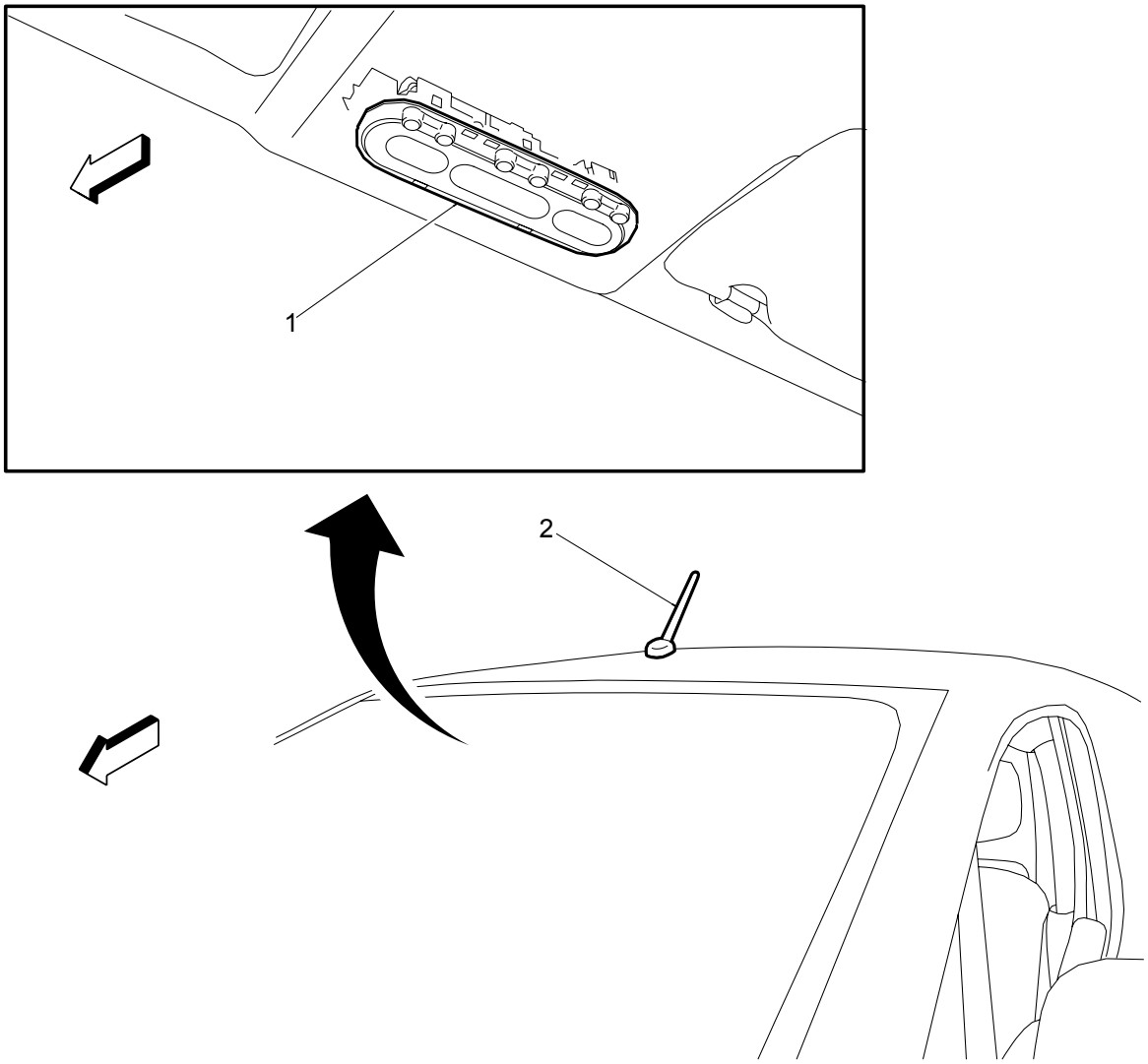
Roof Rail Air Bags



Items

1. F105L Roof Rail Air Bag - Left
2. F105R Roof Rail Air Bag - Right

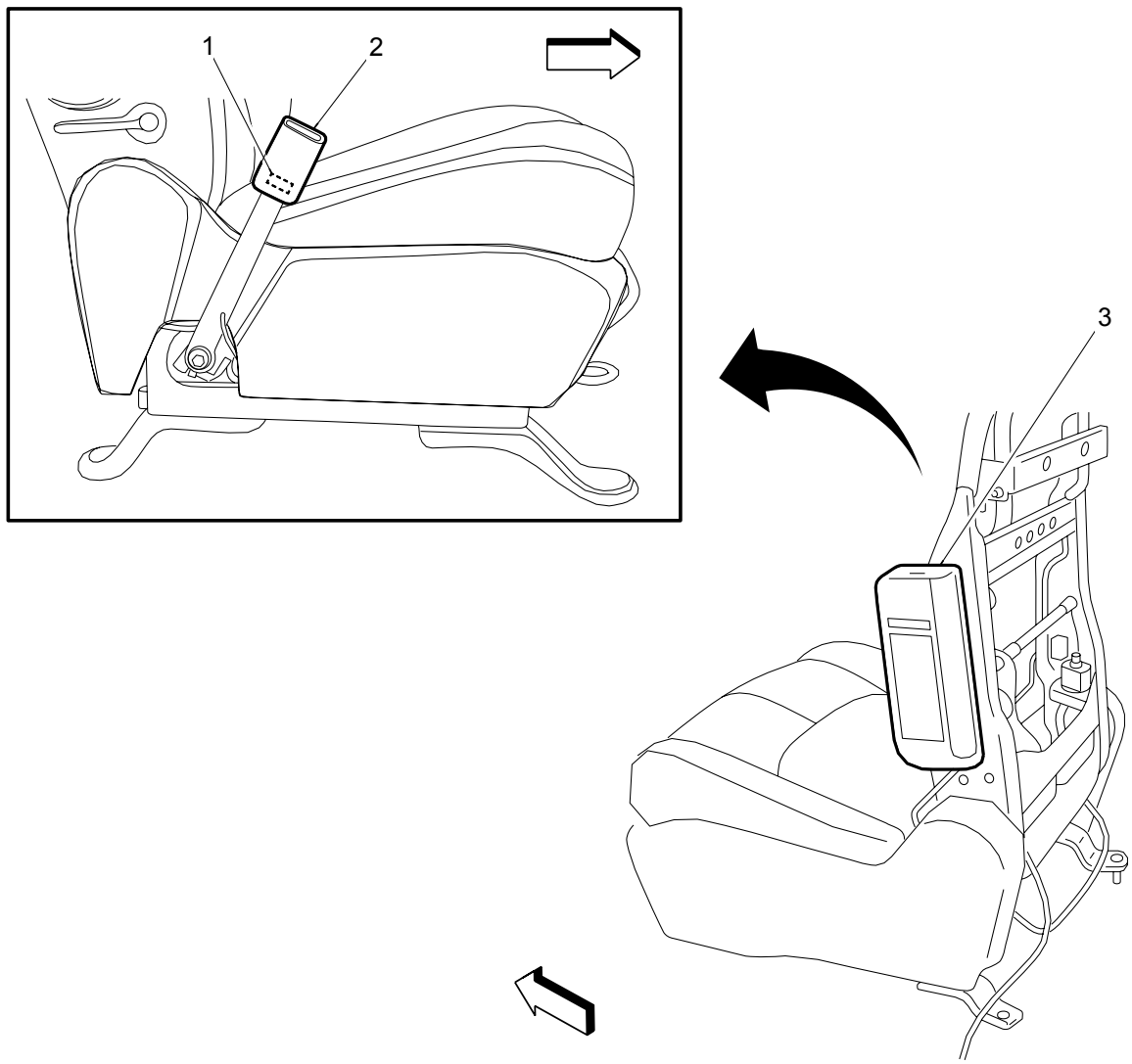
Front of Roof Components



Items

1. E37F Dome/Reading Lamps - Front
2. T4H Digital Radio Antenna

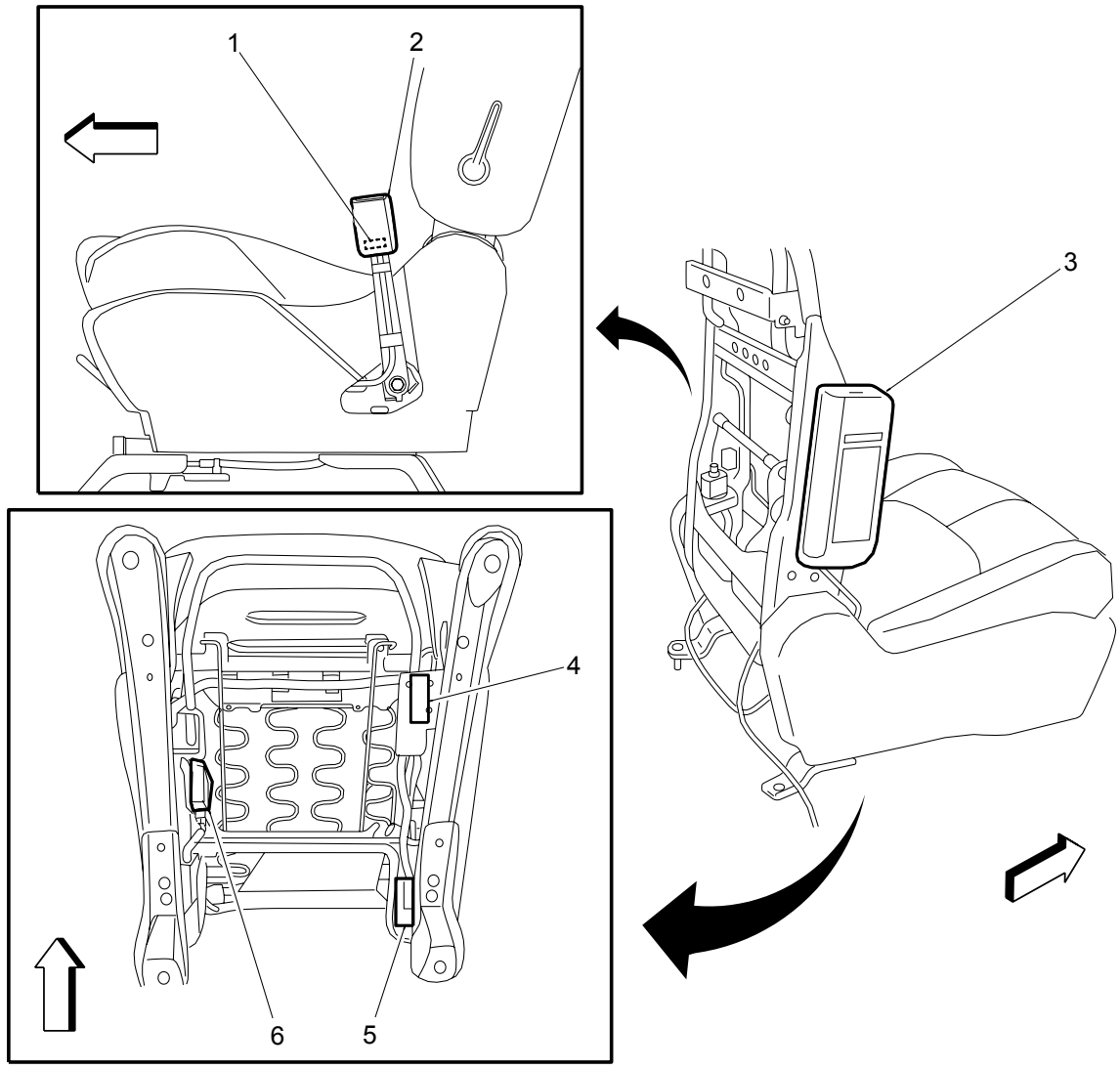
Driver Seat Components



Items

1. B88D Seat Belt Switch - Driver
2. B153D Seat Belt Buckle - Driver
3. F106D Seat Side Air Bag - Driver

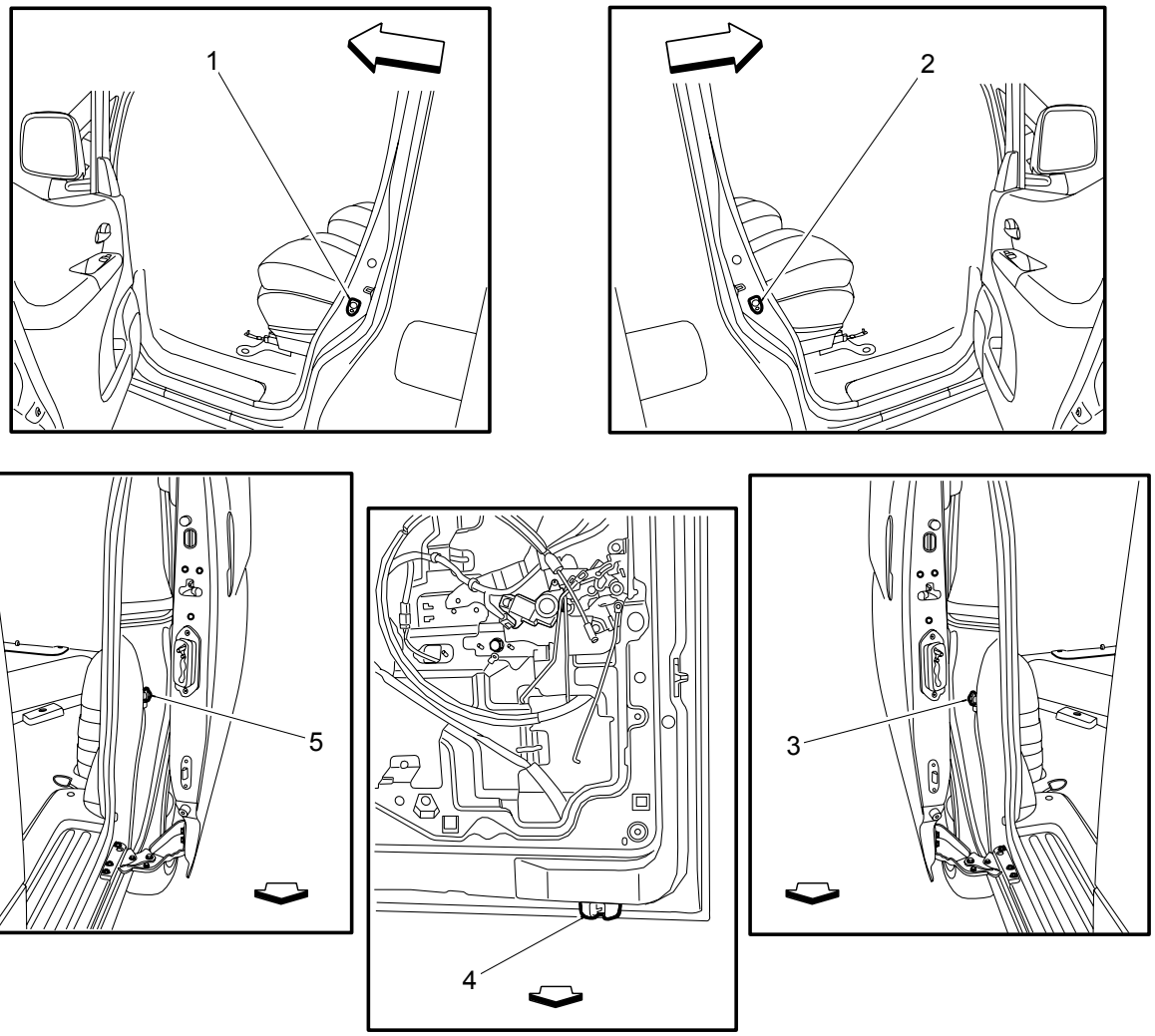
Passenger Seat Components



Items

1. B88P Seat Belt Switch - Passenger
2. B153P Seat Belt Buckle - Passenger
3. F106P Seat Side Air Bag - Passenger
4. B62P Seat Position Sensor - Passenger (1)
5. B62P Seat Position Sensor - Passenger (2)
6. K85 Passenger Presence Module

Door Ajar Switches

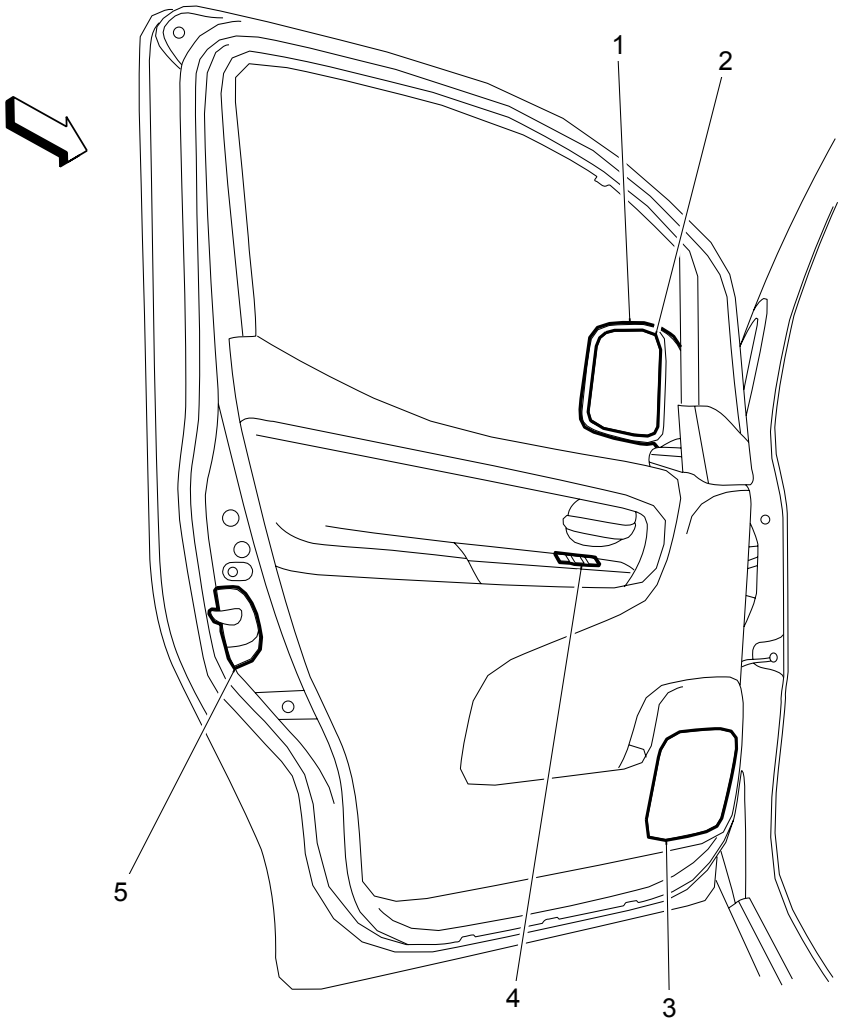


Items

1. B28D Door Ajar Switch - Driver
2. B28P Door Ajar Switch - Passenger
3. B28F Door Ajar Switch - Right Sliding
4. B28C Door Ajar Switch - Rear Cargo
5. B28E Door Ajar Switch - Left Sliding

Door Component Views

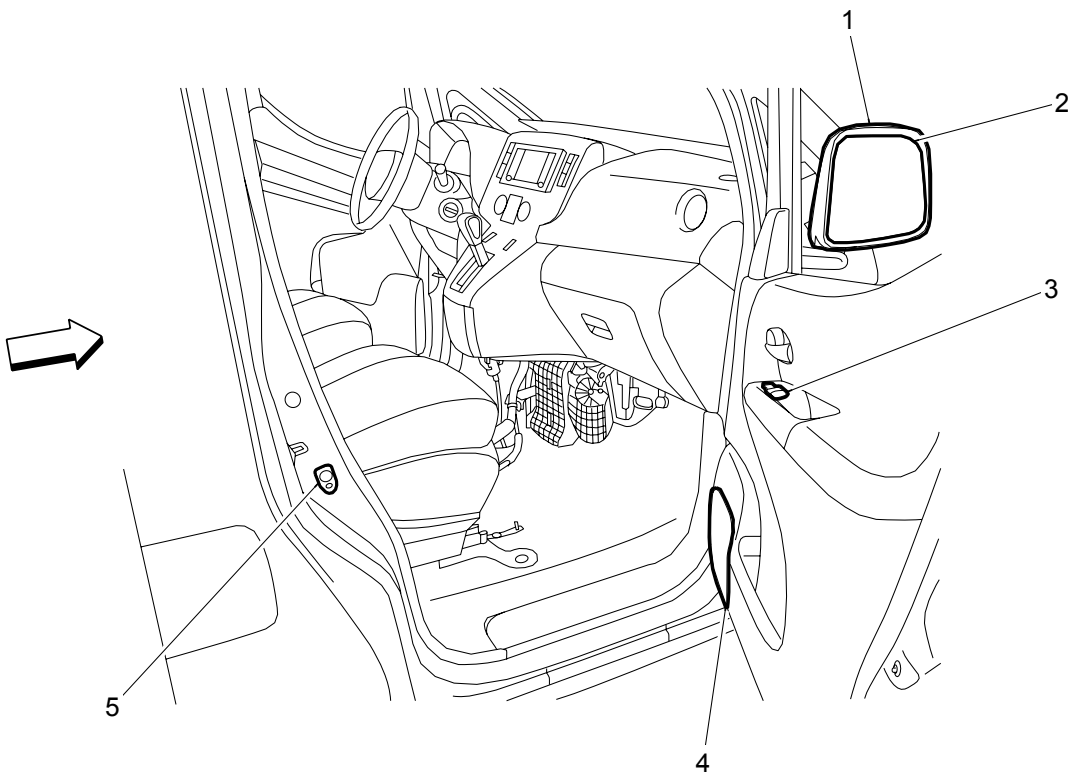
Driver Door Components



Items

1. A9A Outside Rearview Mirror - Driver
2. E17D Outside Rearview Mirror Glass - Driver (DE5 or DR6)
3. P19AG Speaker - Left Front Door
4. S101D Door Lock/Window Switch - Driver
5. A23D Door Latch Assembly - Driver

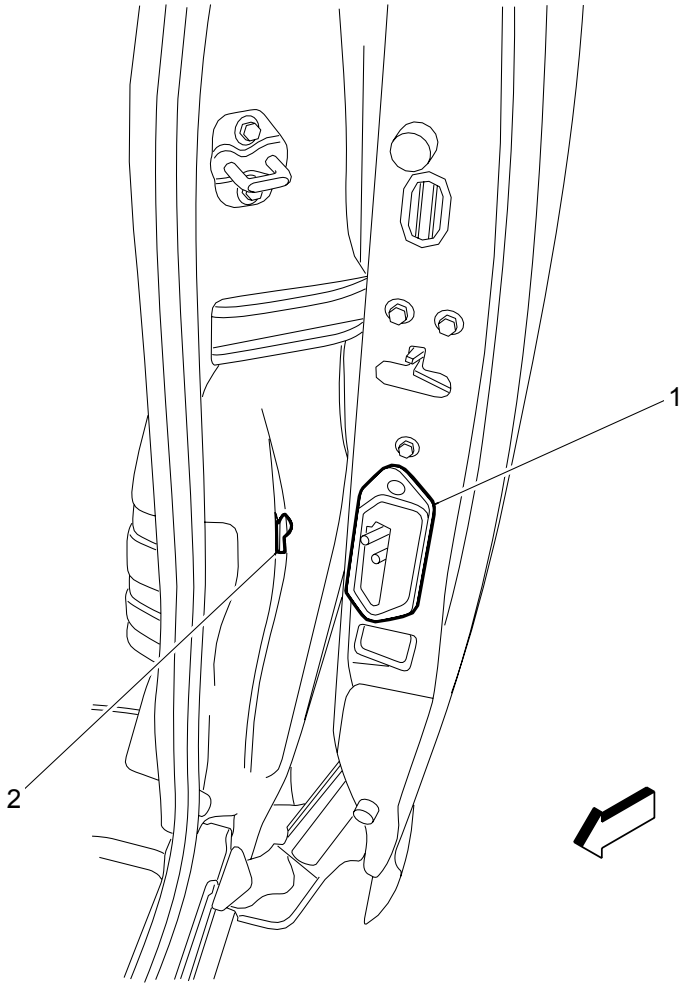
Passenger Door Components



Items

1. A9B Outside Rearview Mirror - Passenger
2. E17P Outside Rearview Mirror Glass - Passenger (DE5 or DR6)
3. S101P Door Lock/Window Switch - Passenger
4. P19AH Speaker - Right Front Door
5. B28P Door Ajar Switch - Passenger

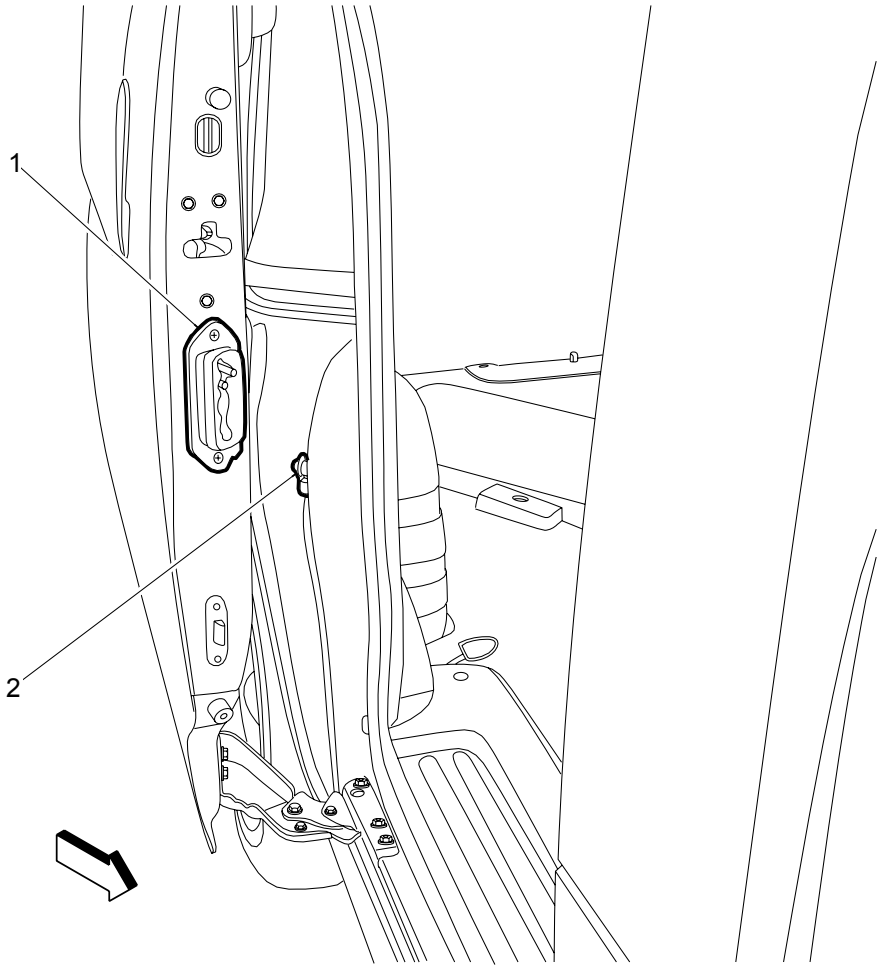
Left Sliding Door Components



Items

1. X87LD Sliding Door Jamb Contact Plate - Left Door
2. B28E Door Ajar Switch - Left Sliding

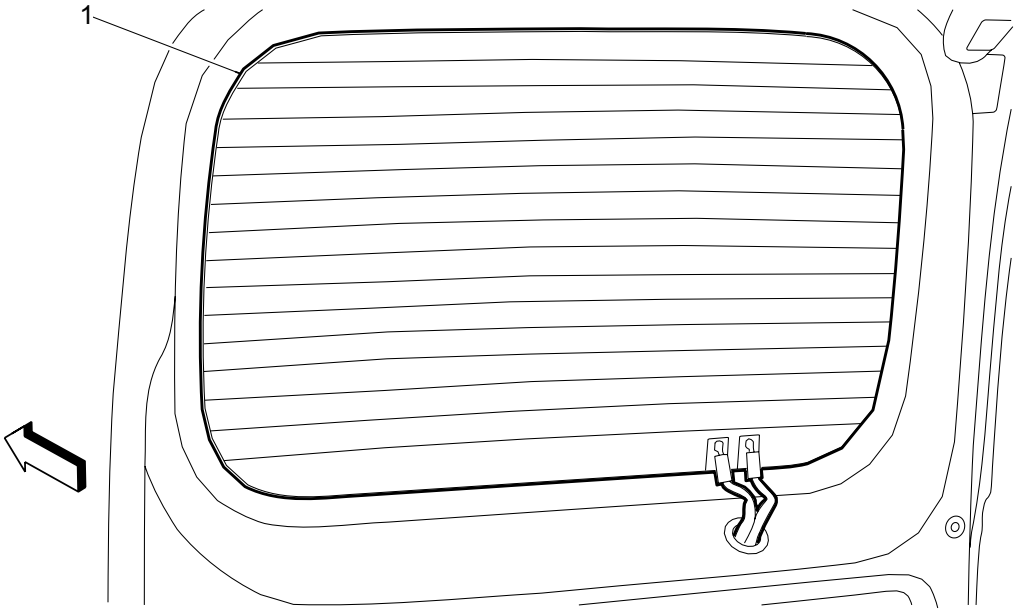
Right Sliding Door Components



Items

1. X87RD Sliding Door Jamb Contact Plate - Right Door
2. B28F Door Ajar Switch - Right Sliding

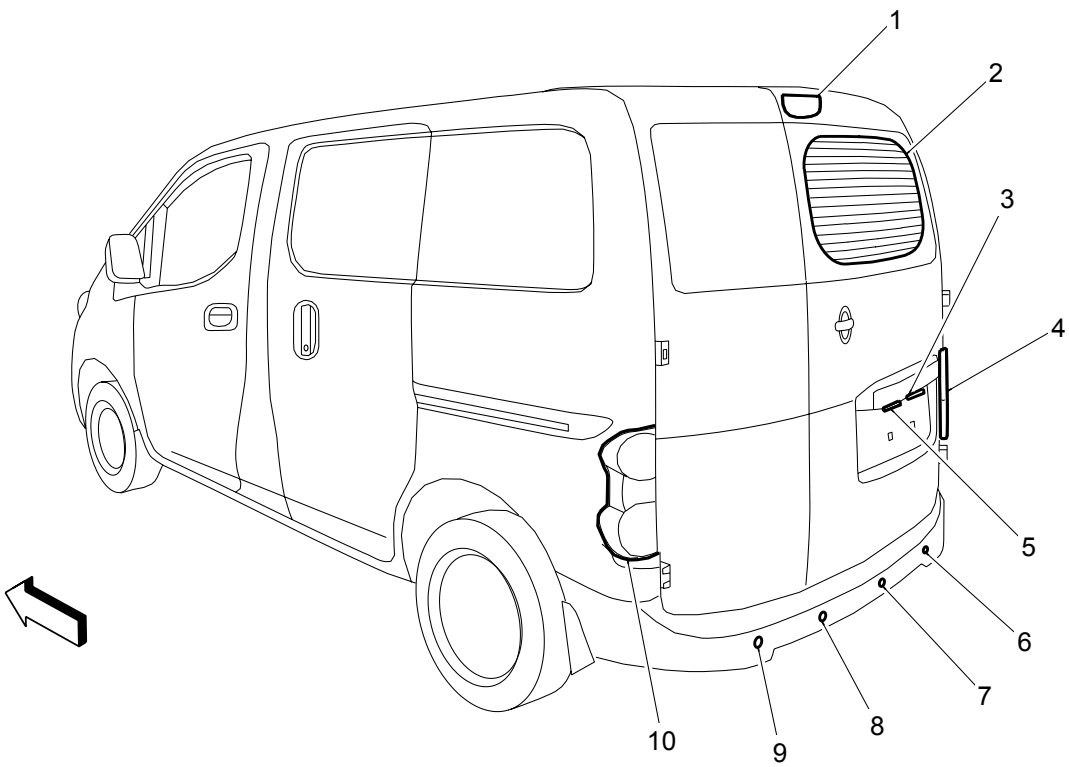
Cargo Door Components



Items

1. E18 Rear Defogger Grid (C49)

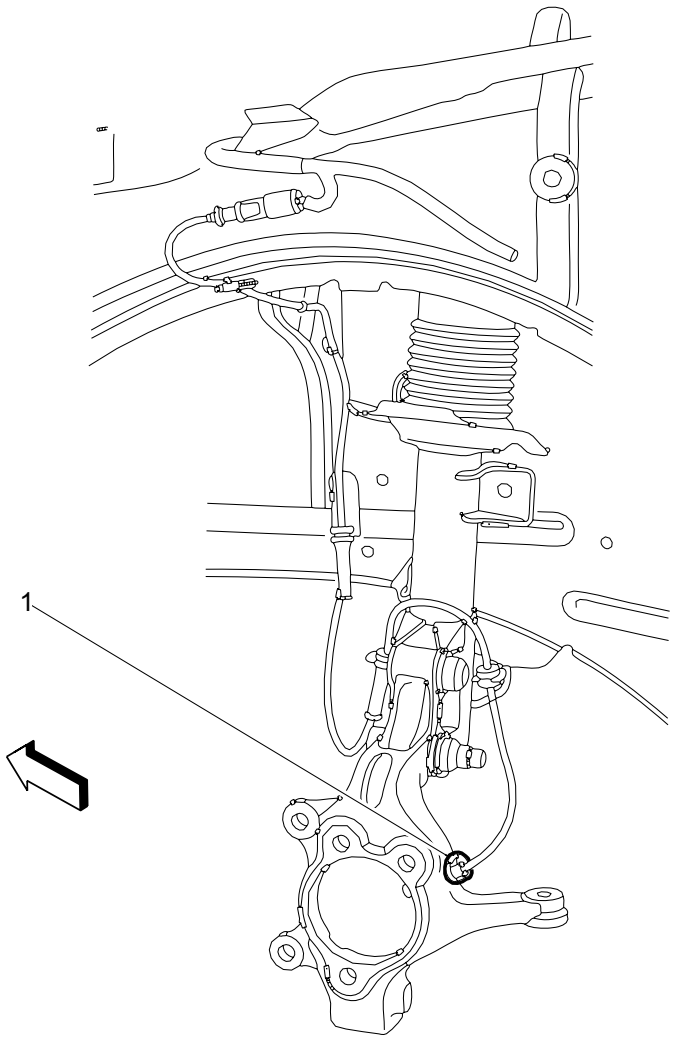
Rear Exterior Components



Items

1. E6 Center High Mounted Stop Lamp
2. E18 Rear Defogger Grid (C49)
3. E7R License Plate Lamp - Right
4. E42R Tail Lamp Assembly - Right
5. E7L License Plate Lamp - Left
6. B78H Rear Object Sensor - Right Outer (UD7)
7. B78F Rear Object Sensor - Right Middle (UD7)
8. B78E Rear Object Sensor - Left Middle (UD7)
9. B78G Rear Object Sensor - Left Outer (UD7)
10. E42L Tail Lamp Assembly - Left

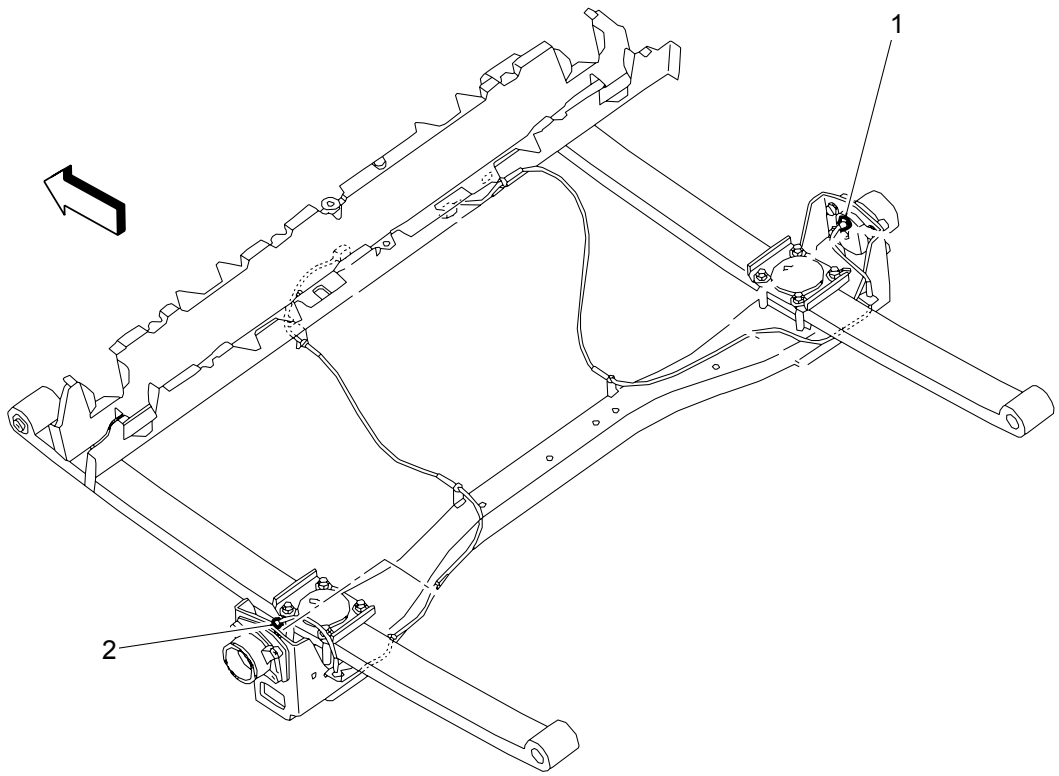
Front Wheel Wall Components



Items

1. B5LF Wheel Speed Sensor - Left Front

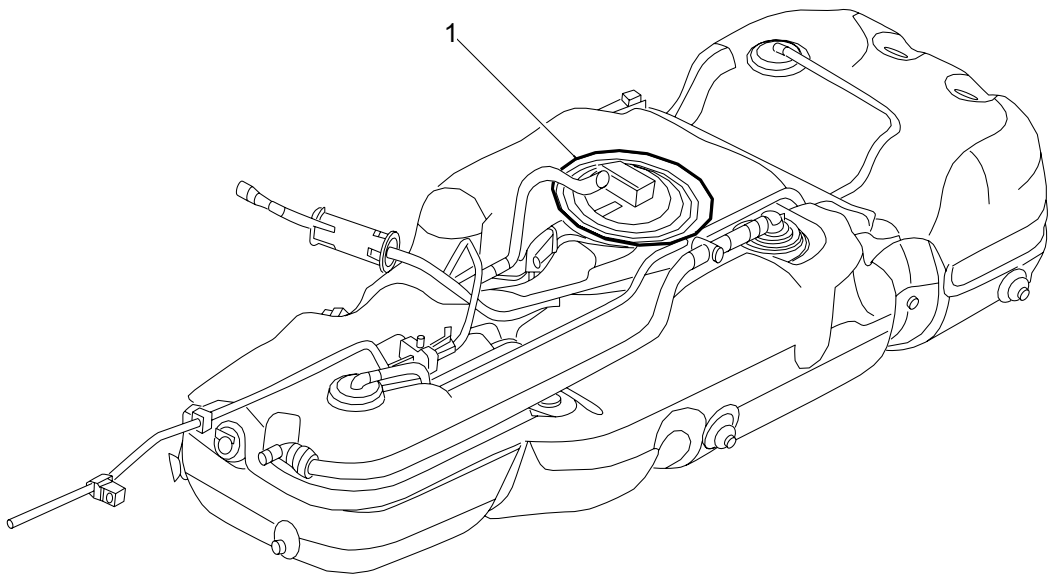
Rear Wheel Well Components



Items

1. B5RR Wheel Speed Sensor - Right Rear
2. B5LR Wheel Speed Sensor - Left Rear

Fuel Tank Components

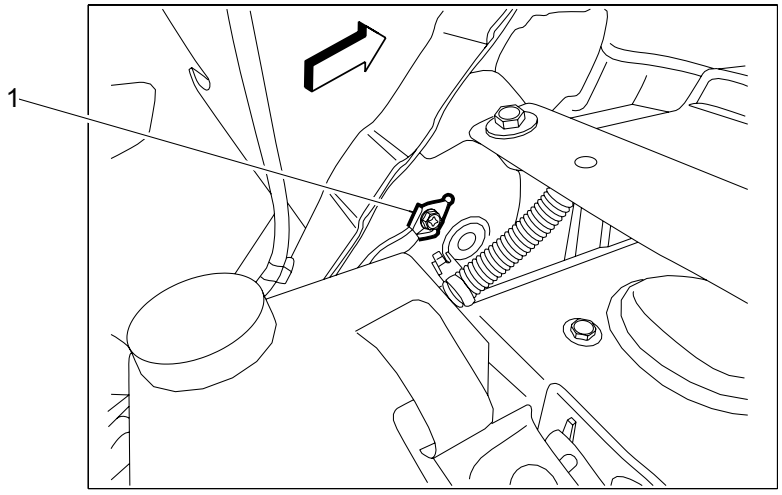


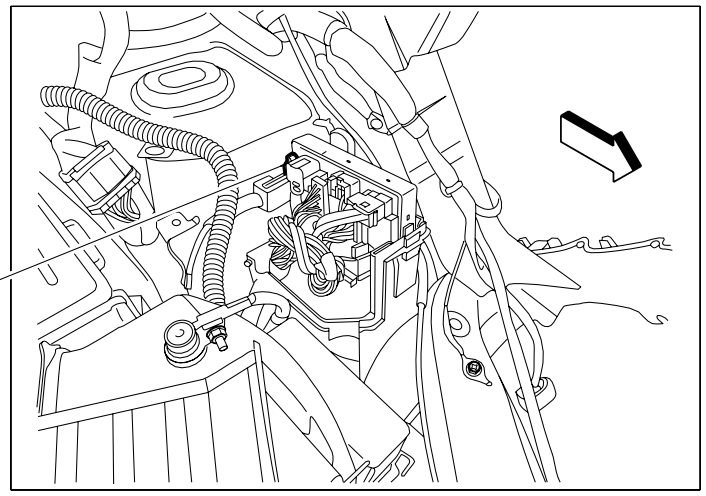
Items

1. A7 Fuel Pump and Level Sensor Assembly

Ground Views

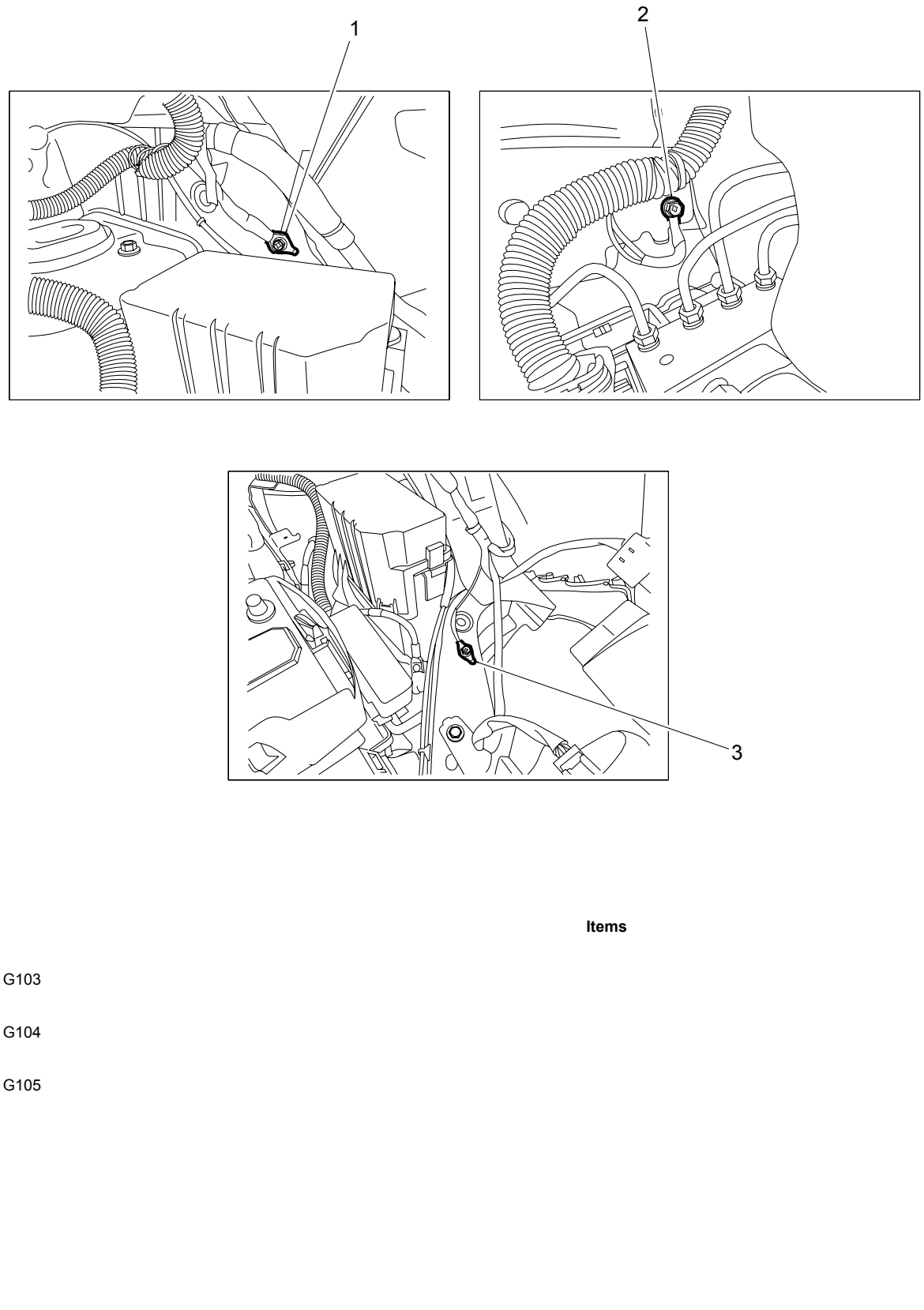
G101, G102





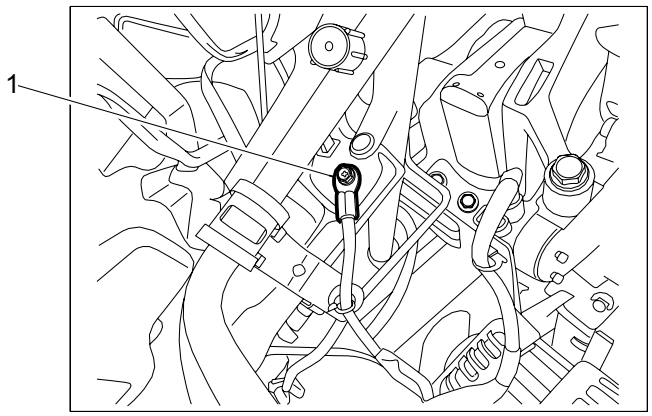
Items

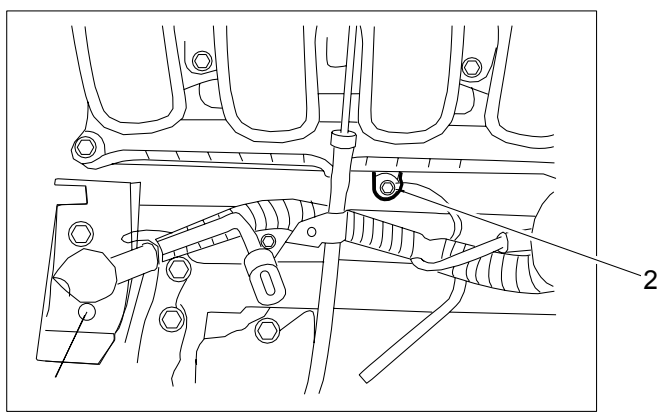
1. G101
2. G102



Items

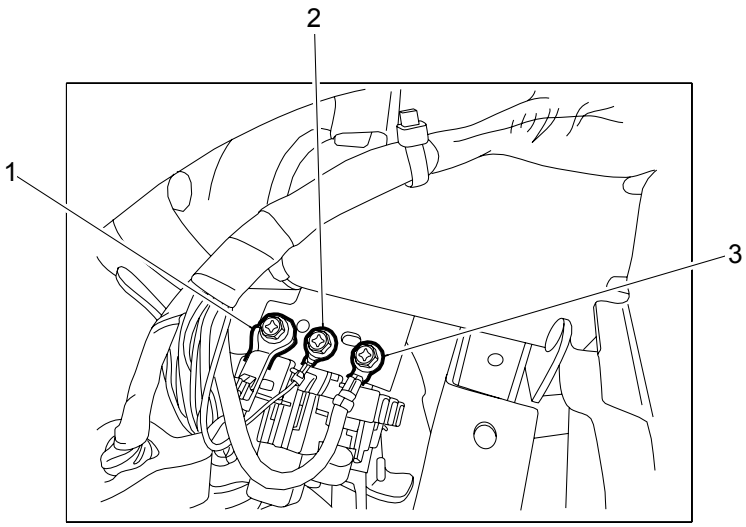
1. G103
2. G104
3. G105

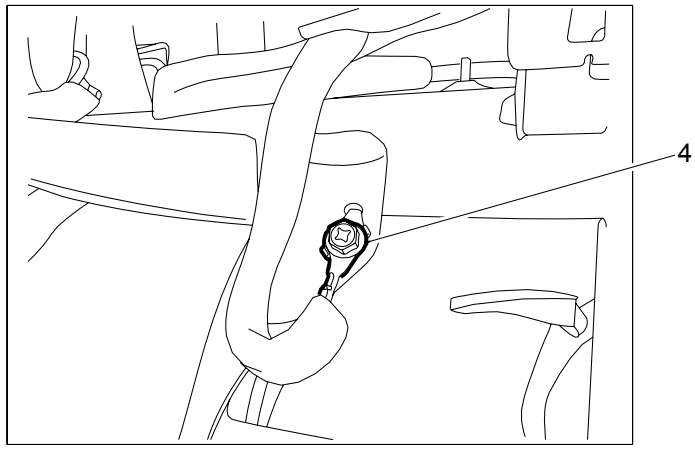




Items

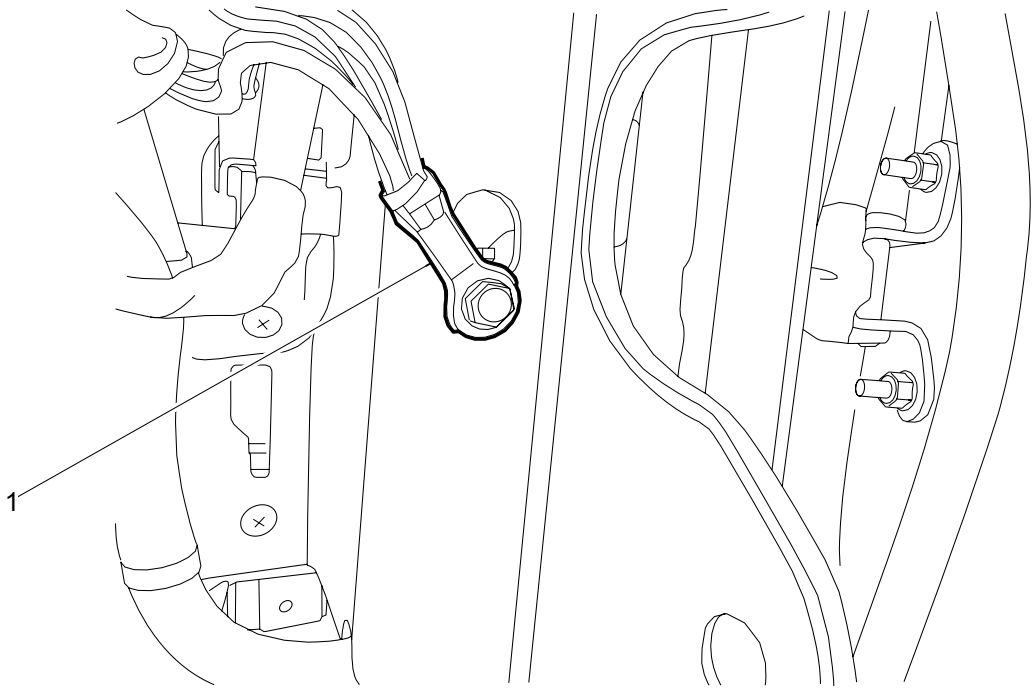
1. G106
2. G107





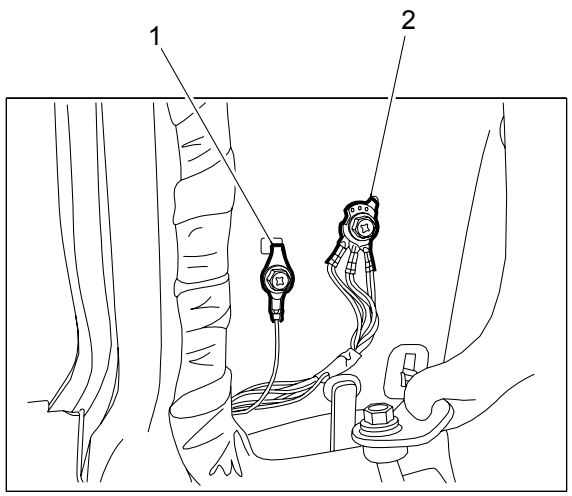
Items

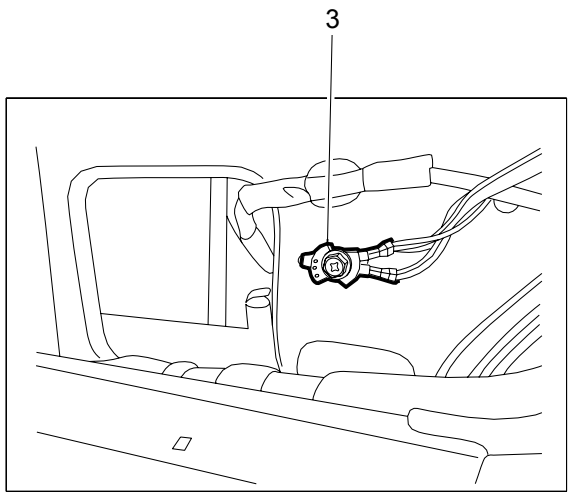
1. G204
2. G201
3. G203
4. G202

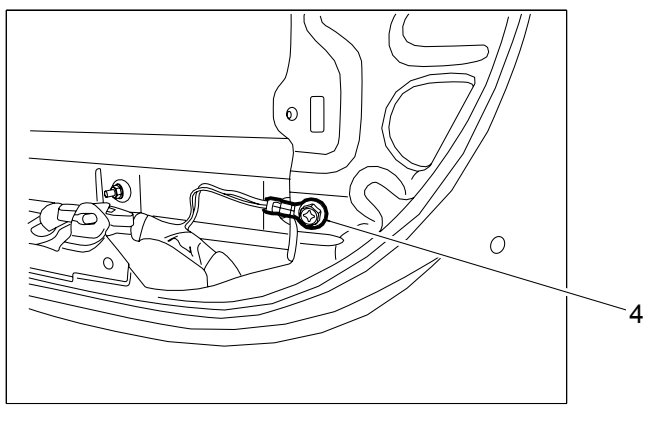


Items

1. G205

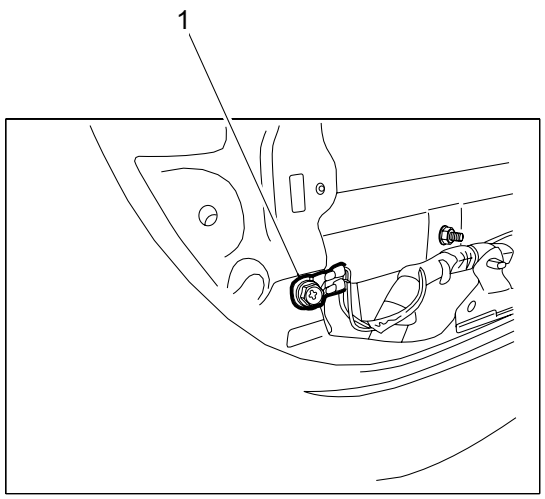


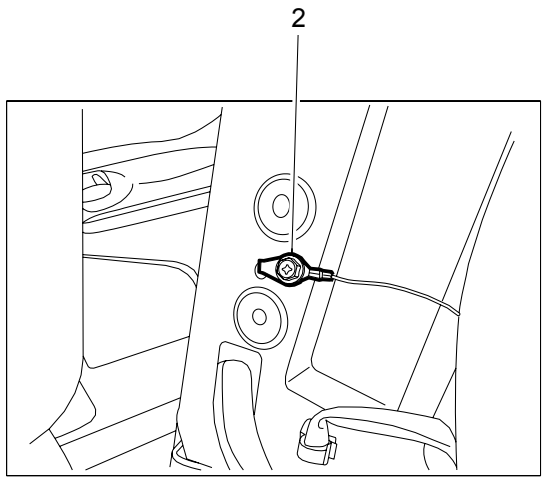


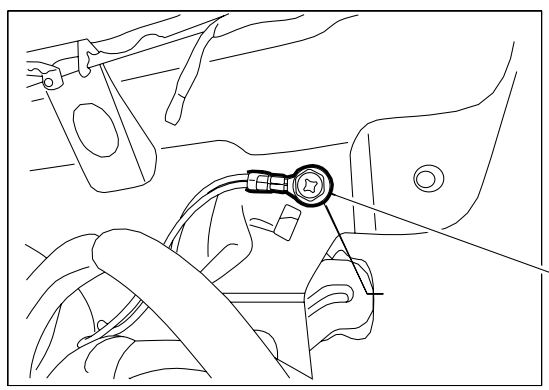


Items

1. G304
2. G301
3. G303
4. G302



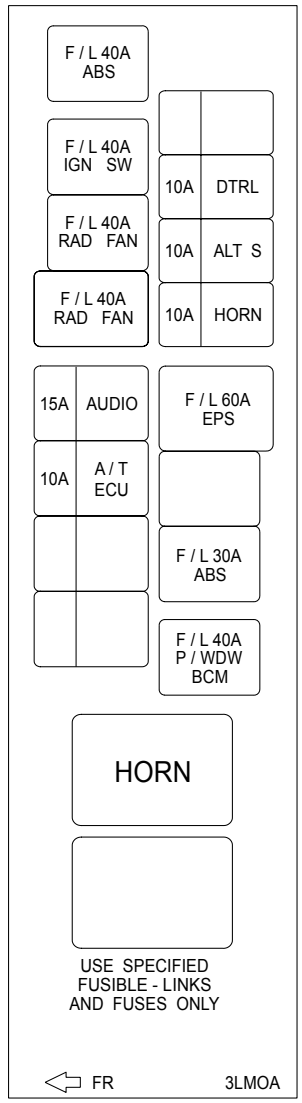




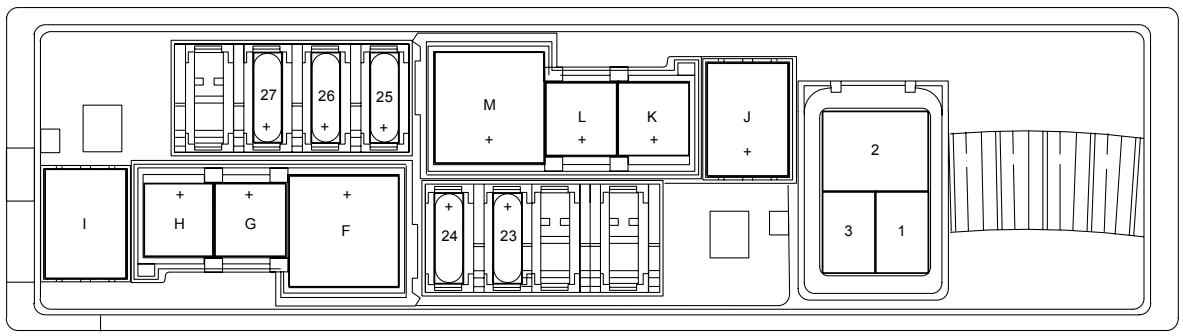
Items

1. G305
2. G307
3. G901

X50B Fuse Block - Underhood Auxiliary Label


F / L 40A ABS
F / L 40A IGN SW
F / L 40A RAD FAN
F / L 40A RAD FAN
10A DTRL
10A ALT S
10A HORN
15A AUDIO
10A A / T ECU
F / L 60A EPS
F / L 30A ABS
F / L 40A P / WDW BCM
HORN
USE SPECIFIED FUSIBLE - LINKS AND FUSES ONLY
FR
3LMOA

X50B Fuse Block - Underhood Auxiliary Top View



X50B Fuse Block - Underhood Auxiliary Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
21	-	F21UB	-	Not Used
22	-	F22UB	-	Not Used
23	A/T ECU	F23UB	10A	K71 Transmission Control Module
24	AUDIO	F24UB	15A	A11 Radio, K82 Mobile Telephone Control Module (UPF)
25	HORN	F25UB	10A	KR3 Horn Relay
26	ALT S	F26UB	10A	G13 Generator
27	DTRL	F27UB	10A	KR42C Daytime Running Lamps Relay 1
28	-	F28UB	-	Not Used
F	RAD FAN	F6UB	40A	G10R Cooling Fan Motor - Right
G	RAD FAN	F7UB	40A	KR20J Cooling Fan Left High Speed Relay, KR20M Cooling Fan Left Medium Speed Relay
H	IGN SW	F8UB	40A	S39 Ignition Switch
I	ABS	F9UB	40A	K17 Electronic Brake Control Module
J	P/WDW BCM	F10UB	40A	K9 Body Control Module
K	ABS	F11UB	30A	K17 Electronic Brake Control Module

K	ABS	F11UB	30A	K17 Electronic Brake Control Module
L	-	F12UB	-	Not Used
M	EPS	F13UB	60A	K43 Power Steering Control Module
-	HORN	KR3 Horn Relay	-	P12 Horn

X50B Fuse Block - Underhood Auxiliary Wire Entry

Connector Part Information

Harness Type: Engine Compartment

OEM Connector: 24381-C9900

Service Connector: Service by Component Assembly - See Part Catalog

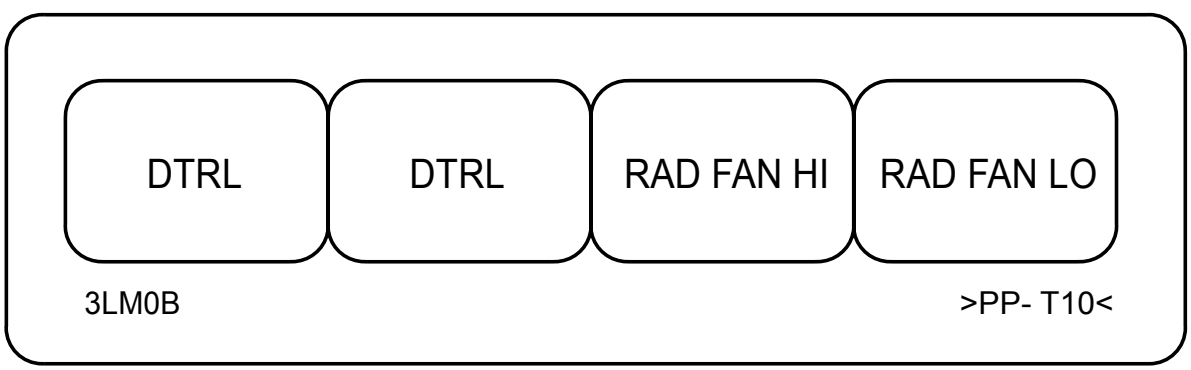
Description: Wire Entry Fuse Block

Terminal Part Information

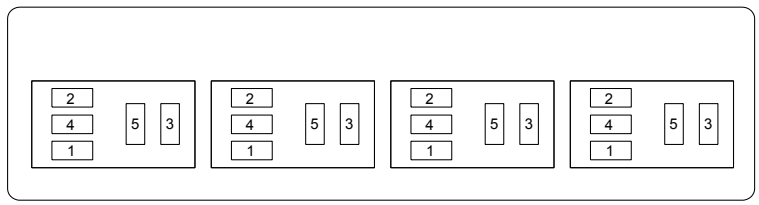
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X50B Fuse Block - Underhood Auxiliary Wire Entry

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
21-22	-	-	-	Not Used	-	-
23	-	D-BU	DA53	Battery Positive Voltage	-	-
24	-	RD	RA01	Battery Positive Voltage	-	-
25	-	GY	MH01	Battery Positive Voltage	-	-
26	-	BN	DA23	Battery Positive Voltage	-	-
27	-	L-GN	LA42	Battery Positive Voltage	-	-
28	-	-	-	Not Used	-	-
F	-	RD	AR09	Battery Positive Voltage	-	-
G	-	GN	DA12	Battery Positive Voltage	-	-
H	-	D-BU	DA11	Battery Positive Voltage	-	-
I	-	YE	BS01	Battery Positive Voltage	-	-
J	-	YE	DA09	Battery Positive Voltage	-	-
K	-	WH	BS02	Battery Positive Voltage	-	-
L	-	-	-	Not Used	-	-
M	-	RD	PS01	Battery Positive Voltage	-	-


DTRL
DTRL
RAD FAN HI
RAD FAN LO
3LM0B
>PP- T10<

X70A Relay Block - Underhood Top View



X70A Relay Block - Underhood Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Relays				
1	DTRL	KR42D Daytime Running Lamps Relay 2	-	E13L Headlamp - Left, E13R Headlamp - Right
2	DTRL	KR42C Daytime Running Lamps Relay 1	-	E13L Headlamp - Left, E13R Headlamp - Right
3	RAD FAN HI	KR20N Cooling Fan Right Medium Speed Relay	-	G10R Cooling Fan Motor - Right
4	RAD FAN LO	KR20C Cooling Fan Low Speed Relay	-	G10L Cooling Fan Motor - Left, G10R Cooling Fan Motor - Right

X70A Relay Block - Underhood Wire Entry

Connector Part Information

Harness Type: Engine Compartment

OEM Connector: 24388-40F00

Service Connector: Service by Component Assembly - See Part Catalog

Description: Wire Entry Fuse Block

Terminal Part Information

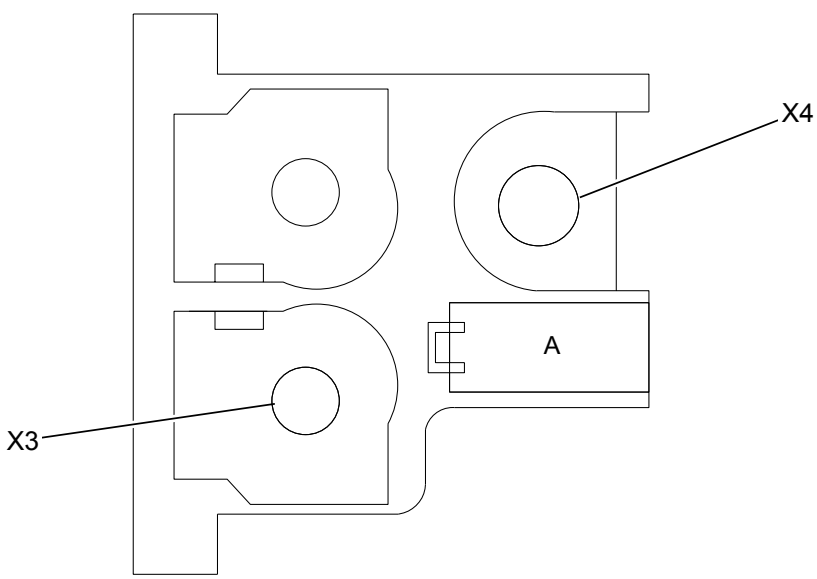
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X70A Relay Block - Underhood Wire Entry

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1_1	-	PK	LA44	Headlamp High Beam Relay Supply Voltage Headlamp Low Beam Relay Supply Voltage	-	EF7 Z49
1_2	-	BK	LAE3	Ground	-	-
1_3	-	L-BU YE	LA45 LA03	Headlamp Low Beam Relay Supply Voltage Headlamp High Beam Relay Supply Voltage	-	EF7 Z49
1_4	-	-	-	Not Used	-	-
1_5	-	PK	LA07 LA04	Headlamp High Beam Relay Supply Voltage Headlamp Low Beam Relay Supply Voltage	-	EF7 Z49
2_1	-	L-GN	LA42	Battery Positive Voltage	-	-
2_2	-	PK	LA41	Daytime Running Lamps Relay 1 Control	-	-
2_3	-	RD	LA40	Daytime Running Lamps Relay 1 Supply Voltage	-	-
2_4	-	BK	LAE1	Ground	-	-
2_5	-	L-GN	LA43	Battery Positive Voltage	-	-
3_1	-	RD	AR12	Ignition Main Relay Supply Voltage	-	-
3_2	-	D-GN	AR05	Left High Speed Cooling Fan Relay Supply Voltage	-	-
3_3	-	GY	AR07	Right Cooling Fan Motor Medium Speed Control	-	-
3_4	-	-	-	Not Used	-	-
3_5	-	BK	ARE3	Ground	-	-
4_1	-	RD	AR11	Ignition Main Relay Supply Voltage	-	-
4_2	-	VT	AR04	Low Speed Cooling Fan Relay Control	-	-
4_3	-	PK	AR06	Right Cooling Fan Motor High/Low Speed Control	-	-
4_4	-	-	-	Not Used	-	-

4_5	-	D-GN	AR03	Left Cooling Fan Motor High/Low Speed Control	-	-

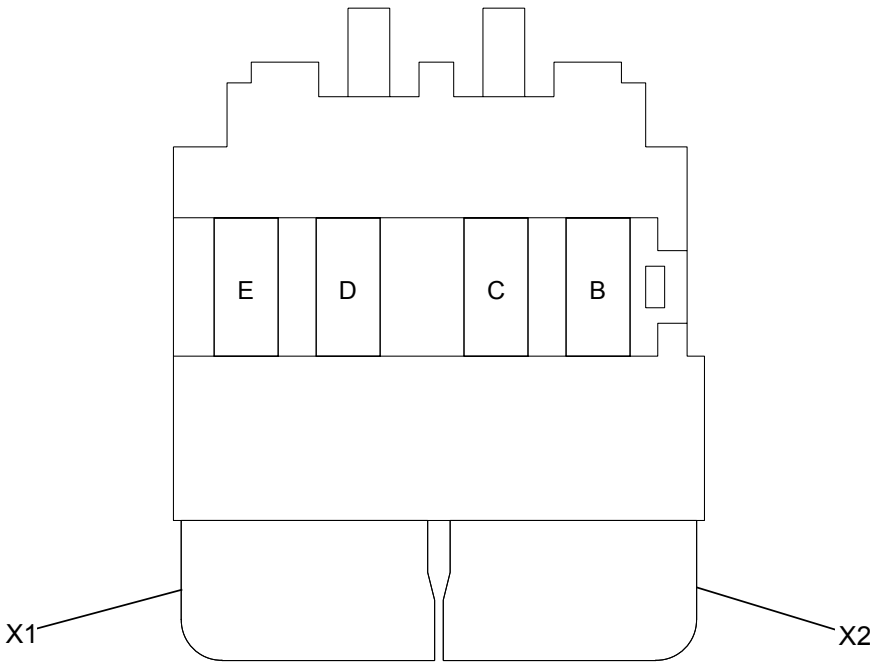
X50D Fuse Block - Battery Top View



X50D Fuse Block - Battery Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
A	-	F1RB	120A	F2RB, F3RB, G13 Generator

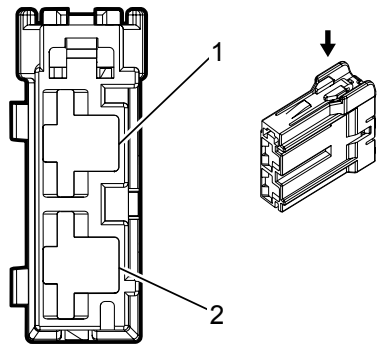
X50D Fuse Block - Battery Side View



X50D Fuse Block - Battery Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
B	-	F3RB	100A	X50B Fuse Block - Underhood Auxiliary
C	-	F2RB	80A	X50A Fuse Block - Underhood, X50B Fuse Block - Underhood Auxiliary
D	-	F4RB	60A	X50A Fuse Block - Underhood
E	-	F5RB	80A	X51A Fuse Block - Instrument Panel

X50D Fuse Block - Battery X1



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: L02FGY-MC

Service Connector: Service by Harness - See Parts Catalog

Description: 2-Way F (GY)

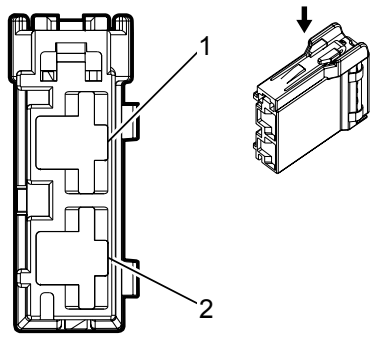
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X50D Fuse Block - Battery X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	GN	DA04	Battery Positive Voltage	-	-
2	-	WH	DA03	Battery Positive Voltage	-	-

X50D Fuse Block - Battery X2



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: L02FBR-MC

Service Connector: Service by Harness - See Parts Catalog

Description: 2-Way F (BN)

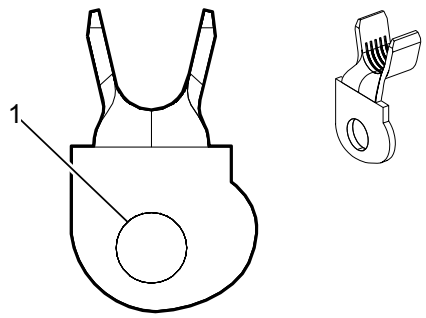
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X50D Fuse Block - Battery X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	WH	DA05	Battery Positive Voltage	-	-
2	-	RD	DA02	Battery Positive Voltage	-	-

X50D Fuse Block - Battery X3



Connector Part Information

Harness Type: Engine

OEM Connector: 24340_79906

Service Connector: Service by Cable Assembly - See Parts Catalog

Description: Ring Terminal

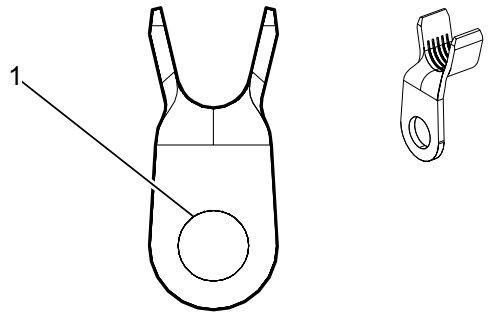
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X50D Fuse Block - Battery X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK/RD	DA01	Battery Positive Voltage	-	-

X50D Fuse Block - Battery X4



Connector Part Information

Harness Type: Engine

OEM Connector: 24340_79907

Service Connector: Service by Cable Assembly - See Parts Catalog

Description: Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

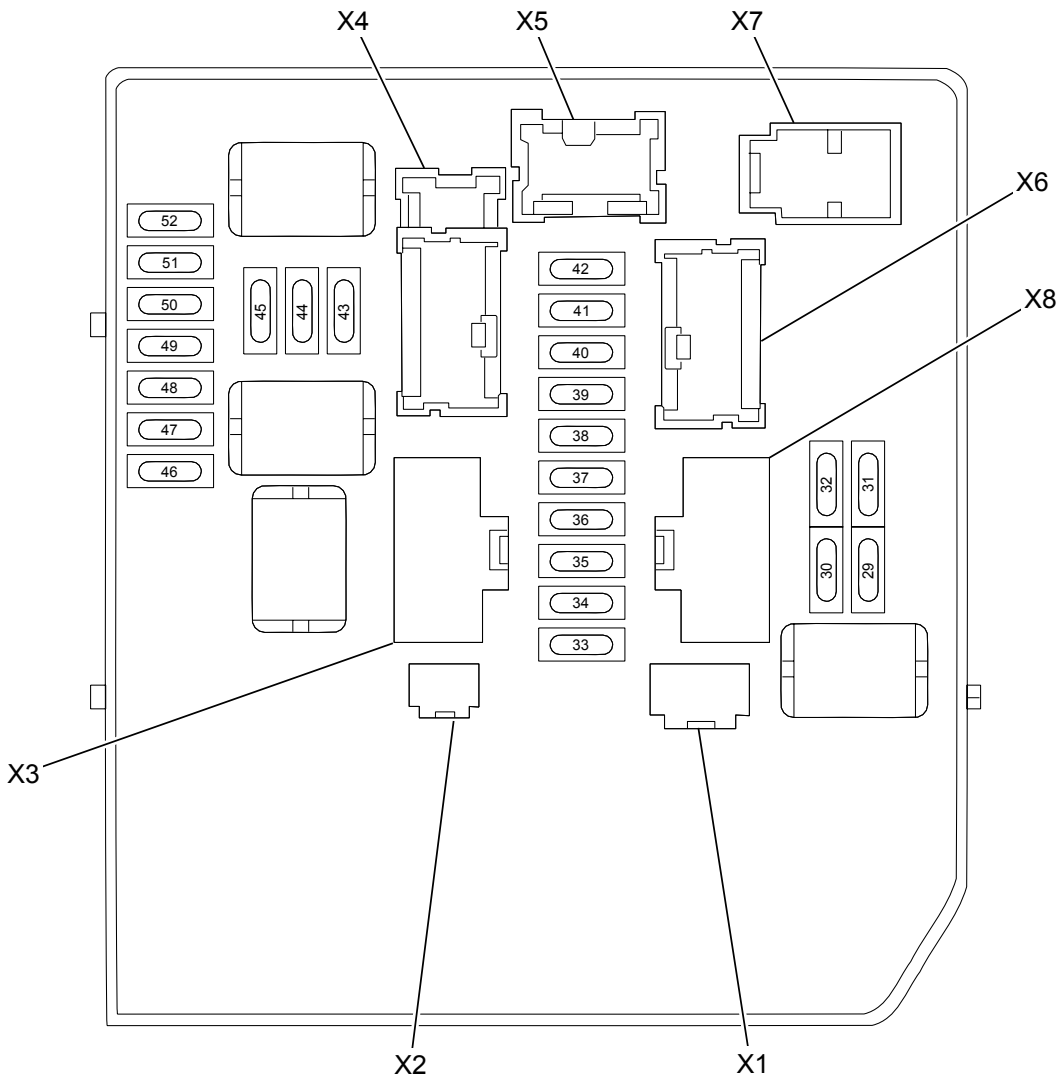
X50D Fuse Block - Battery X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK/RD	AH10	Unfused Battery Positive Voltage	-	-

X50A Fuse Block - Underhood Label

FUSE		
F1	RR DEF	20A
F2		
F3	EGI	20A
F4		
F5	FR WIPER	30A
F6	POS LAMPS	10A
F7		
F8		
F9	A/C CLUTCH	10A
F10	FR FOD LAMP	15A
F11	H/L LAMP HI RH	10A
F12	H/L LAMP HI LH	10A
F13	H/L LAMP LO LH	15A
F14	H/L LAMP LO RH	15A
F15	A/T ECU IGN	10A
F16	REV LAMP IGN	10A
F17	ABS ECU IGN	10A
F18		
F19		
F20	FUEL PUMP	15A
F21	02 SENSOR	15A
F22	INJECTION IGN	15A
F23		
F24	ETC	15A

X50A Fuse Block - Underhood Top View



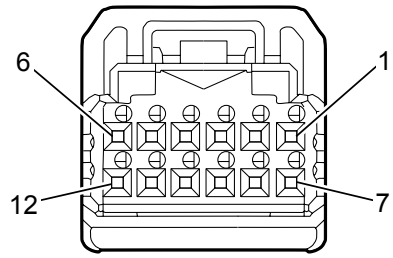
X50A Fuse Block - Underhood Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	RR DEF	F29UA	20A	KR5 Rear Defogger Relay
F2	-	F30UA	-	Not Used
F3	EGI	F31UA	20A	K20 Engine Control Module, KR75 Engine Controls Ignition Relay
F4	-	F32UA	-	Not Used
F5	FR WIPER	F33UA	30A	KR12B Windshield Wiper Relay
F6	POS LAMPS	F34UA	10A	A11 Radio, E4N Park/Turn Signal Lamp - Left, E4P Park/Turn Signal Lamp - Right, E5AA Tail/Stop Lamp - Left, E5AB Tail/Stop Lamp - Right, E7L License Plate Lamp - Left, E7R License Plate Lamp - Right, S3 Transmission Shift Lever, S26 Hazard Warning Switch, S34 HVAC Controls Switch Assembly, S70L Steering Wheel Controls Switch - Left (UP9 or UPF), S70R Steering Wheel Controls Switch - Right (K34), S75 Traction Control Switch
F7	-	F35UA	-	Not Used
F8	-	F36UA	-	Not Used

F8	-	F36UA	-	Not Used
F9	A/C CLUTCH	F37UA	10A	KR29 A/C Compressor Clutch Relay
F10	FR FOG LAMP	F38UA	15A	Not Used
F11	H/LAMP HI RH	F39UA	10A	E13R Headlamp - Right (Z49), KR42D Daytime Running Lamps Relay 2 (EF7)
F12	H/LAMP HI LH	F40UA	10A	E13L Headlamp - Left
F13	H/LAMP LO LH	F41UA	15A	E13L Headlamp - Left
F14	H/LAMP LO RH	F42UA	15A	E13R Headlamp - Right (EF7), KR42D Daytime Running Lamps Relay 2 (Z49)
F15	A/T ECU IGN	F43UA	10A	B14A Transmission Output Shaft Speed Sensor, B14B Transmission Turbine Speed Sensor, B14C Transmission Input Shaft Speed Sensor, B81 Park/Neutral Position Switch, K71 Transmission Control Module,
F16	REV LAMP IGN	F44UA	10A	B81 Park/Neutral Position Switch
F17	ABS ECU IGN	F45UA	10A	B99 Steering Wheel Angle Sensor, B119 Multi-axis Acceleration Sensor, K17 Electronic Brake Control Module
F18	-	F46UA	-	Not Used
F19	-	F47UA	-	Not Used
F20	FUEL PUMP	F48UA	15A	KR23A Fuel Pump Relay
F21	IGN COIL	F49UA	15A	B52A Heated Oxygen Sensor 1, B52B Heated Oxygen Sensor 2, KR20C Cooling Fan Low Speed Relay, KR20N Cooling Fan Right Medium Speed Relay, Q6F Camshaft Position Actuator Solenoid Valve - Intake
F22	INJECTOR IGN	F50UA	15A	K20 Engine Control Module, Q17A Fuel Injector 1, Q17B Fuel Injector 2, Q17C Fuel Injector 3, Q17D Fuel Injector 4
F23	-	F51UA	-	Not Used
F24	ETC	F52UA	15A	KR75 Engine Controls Ignition Relay
-	-	KR5 Rear Defogger Relay	-	E17D Outside Rearview Mirror Glass - Driver (DR6), E17P Outside Rearview Mirror Glass - Passenger (DR6), E18 Rear Defogger Grid (C49), S34 HVAC Controls Switch Assembly
-	-	KR12B Windshield Wiper Relay	-	KR12C Windshield Wiper Speed Control Relay
-	-	KR12C Windshield Wiper Speed Control Relay	-	M75 Windshield Wiper Motor
-	-	KR20C Cooling Fan Low Speed Relay	-	G10L Cooling Fan Motor - Left
-	-	KR20J Cooling Fan Left High Speed Relay	-	G10L Cooling Fan Motor - Left
-	-	KR20K Cooling Fan Right High Speed Relay	-	G10R Cooling Fan Motor - Right
-	-	KR20M Cooling Fan Left Medium Speed Relay	-	G10L Cooling Fan Motor - Left

-	-	KR20N Cooling Fan Right Medium Speed Relay	-	G10R Cooling Fan Motor - Right
-	-	KR23A Fuel Pump Relay	-	G12 Fuel Pump
-	-	KR27 Starter Relay	-	M64 Starter Motor
-	-	KR29 A/C Compressor Clutch Relay	-	Q2 A/C Compressor Clutch
-	-	KR48 Headlamp High Beam Relay	-	E13L Headlamp - Left, E13R Headlamp - Right (Z49), KR42D Daytime Running Lamps Relay 2 (EF7)
-	-	KR49 Headlamp Low Beam Relay	-	E13L Headlamp - Left, E13R Headlamp - Right (EF7), KR42D Daytime Running Lamps Relay 2 (Z49)
-	-	KR60 Tail Lamps Relay	-	E4LR Turn Signal Lamp - Left Rear, E4RR Turn Signal Lamp - Right Rear, E4N Park/Turn Signal Lamp - Left, E4P Park/Turn Signal Lamp - Right, E7L License Plate Lamp - Left, E7R License Plate Lamp - Right
-	-	KR73 Ignition Main Relay	-	A90 Logic, B52A Heated Oxygen Sensor 1, B52B Heated Oxygen Sensor 2, K20 Engine Control Module, KR5 Rear Defogger Relay, KR12B Windshield Wiper Relay, KR12C Windshield Wiper Speed Control Relay, KR20C Cooling Fan Low Speed Relay, KR20J Cooling Fan Left High Speed Relay, KR20K Cooling Fan Right High Speed Relay, KR20M Cooling Fan Left Medium Speed Relay, KR20N Cooling Fan Right Medium Speed Relay, KR23A Fuel Pump Relay, KR29 A/C Compressor Clutch Relay, Q6F Camshaft Position Actuator Solenoid Valve - Intake, Q17A Fuel Injector 1, Q17B Fuel Injector 2, Q17C Fuel Injector 3, Q17D Fuel Injector 4
-	-	KR75 Engine Controls Ignition Relay	-	B75 Mass Air Flow Sensor, C9 Ignition Coil Capacitor, K20 Engine Control Module, Q12 Evaporative Emission Purge Solenoid Valve, Q13 Evaporative Emission Vent Solenoid Valve, T8A Ignition Coil 1, T8B Ignition Coil 2, T8C Ignition Coil 3, T8D Ignition Coil 4,
-	-	KR164 Throttle Body Relay	-	K20 Engine Control Module

X50A Fuse Block - Underhood X1



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: TH12FW-NH

Service Connector: Service by Harness - See Parts Catalog

Description: 12-Way F 025 Series (NA)

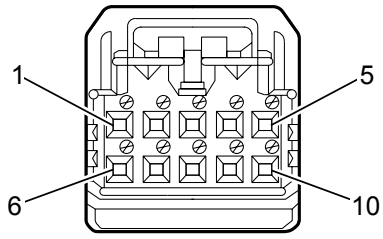
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X50A Fuse Block - Underhood X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PK	LA41	Daytime Running Lamps Relay 1 Control	-	-
2	-	BU	DA44	CAN Bus High Serial Data (+)	-	-
3	-	PK	DA45	CAN Bus High Serial Data (-)	-	-
4	-	OG	WA04	Windshield Wiper Motor Park Switch Signal	-	-
5-6	-	-	-	Not Occupied	-	-
7	-	RD	PF23	Horn Relay Control Signal	-	-
8	-	GY	DA24	Power Generation Command Signal	-	-
9	-	-	-	Not Occupied	-	-
10	-	GY	AC21	Fuel Pump Relay Control	-	-
11-12	-	-	-	Not Occupied	-	-

X50A Fuse Block - Underhood X2



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: TH10FB-NH

Service Connector: Service by Harness - See Parts Catalog

Description: 10-Way F (BK)

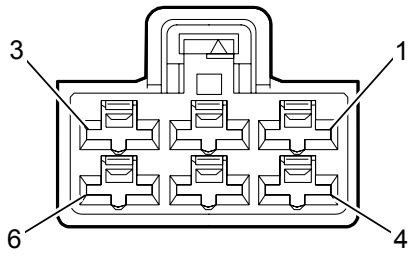
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X50A Fuse Block - Underhood X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	GN	AR05	Left High Speed Cooling Fan Relay Supply Voltage	-	-
2-4	-	-	-	Not Occupied	-	-
5	-	VT	AR04	Low Speed Cooling Fan Relay Control	-	-
6-10	-	-	-	Not Occupied	-	-

X50A Fuse Block - Underhood X3



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: M06FW-LC

Service Connector: Service by Harness - See Parts Catalog

Description: 6-Way F 250 Series (NA)

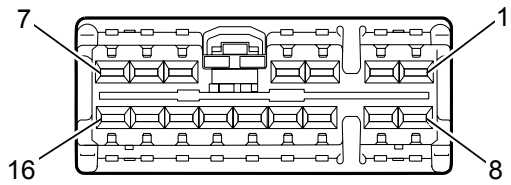
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X50A Fuse Block - Underhood X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	WH	AR01	Left Medium Speed Cooling Fan Relay Supply Voltage	-	-
2	-	-	-	Not Occupied	-	-
3	-	RD	AH01	Starter Relay Supply Voltage	-	-
4	-	GN	DA12	Battery Positive Voltage	-	-
5	-	GN	AR03	Left Cooling Fan Motor High/Low Speed Control	-	-
6	-	WH	AH03	Crank Ignition Voltage	-	-

X50A Fuse Block - Underhood X4



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: NS16FW-CS

Service Connector: Service by Harness - See Parts Catalog

Description: 16-Way F 090 Series (NA)

Terminal Part Information

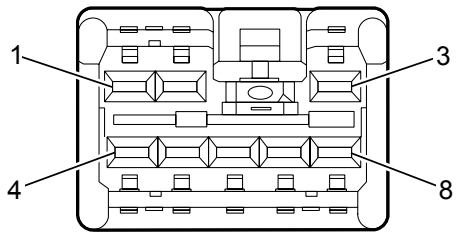
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X50A Fuse Block - Underhood X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	-	• •	• •	• •	-	• •
3	-	WH	LA06	Left Headlamp Low Beam Supply Voltage	-	-
4	-	GN	LA05	Left Headlamp High Beam Supply Voltage	-	-
5	-	• •	• •	• •	-	• •
6	-	-	-	Not Occupied	-	-
7	-	L-GN	AH04	Neutral Safety Switch Park/Neutral Signal	-	-
8	-	L-BU	AC16	Ignition Main Relay Supply Voltage	-	-
9	-	RD/WH	AC29	Ignition Main Relay Supply Voltage	-	-
10	-	VT	BS03	Ignition Main Relay Supply Voltage	-	-
11	-	L-BU	LR01	Ignition Main Relay Supply Voltage	-	-
12	-	L-GN	BA19	Ignition Main Relay Supply Voltage	-	-
13	-	YE	AC23	Throttle Body Relay Supply Voltage	-	-

14	-	WH	HA34	A/C Compressor Clutch Supply Voltage	-	-
15	-	GN	AC20	Fuel Pump Relay Supply Voltage	-	-
16	-	L-GN	AC24	Throttle Body Relay Control	-	-

X50A Fuse Block - Underhood X5



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: NS08FBR-CS

Service Connector: Service by Harness - See Parts Catalog

Description: 8-Way F (BN)

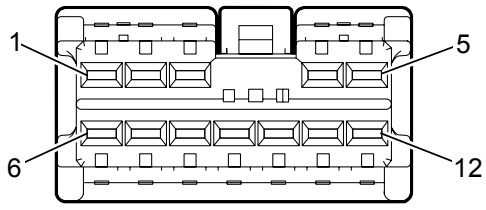
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X50A Fuse Block - Underhood X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-3	-	-	-	Not Occupied	-	-
4	-	OG	DA37	Run/Crank Ignition Voltage	-	-
5	-	BK	DAE1	Ground	-	-
6-8	-	-	-	Not Occupied	-	-

X50A Fuse Block - Underhood X6



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: NS12FBR-CS

Service Connector: Service by Harness - See Parts Catalog

Description: 12-Way F 2.3 Series (BN)

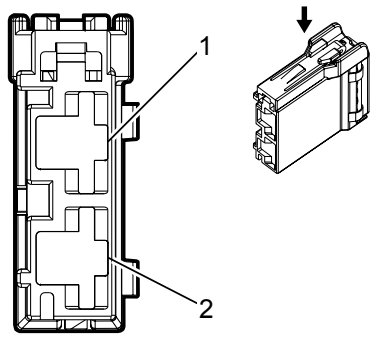
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X50A Fuse Block - Underhood X6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	-	YE	LT05	Tail Lamps Relay Supply Voltage	-	-
3	-	PK	LT06	Tail Lamps Relay Supply Voltage	-	-
4	-	VT	LT02	Tail Lamps Relay Supply Voltage	-	-
5	-	WH	WA02	Windshield Wiper Motor High Speed Control	-	-
6	-	BU	AC04	Engine Controls Ignition Relay Control	-	-
7-8	-	-	-	Not Occupied	-	-
9	-	GN	AC02	Engine Controls Ignition Relay Supply Voltage	-	-
10	-	YE	AC50	Engine Controls Ignition Relay Supply Voltage	-	-
11	-	RD	AC01	Battery Positive Voltage	-	-
12	-	YE	WA03	Windshield Wiper Motor Low Speed Control	-	-

X50A Fuse Block - Underhood X7



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: L02FBR-MC

Service Connector: Service by Harness - See Parts Catalog

Description: 2-Way F 9.5 Series (BN)

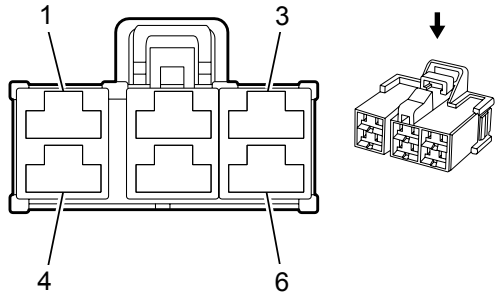
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X50A Fuse Block - Underhood X7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	DA02	Battery Positive Voltage	-	-
2	-	GN	DA04	Battery Positive Voltage	-	-

X50A Fuse Block - Underhood X8



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: M06FB-LC

Service Connector: Service by Harness - See Parts Catalog

Description: 6-Way F 9.35 Series (BK)

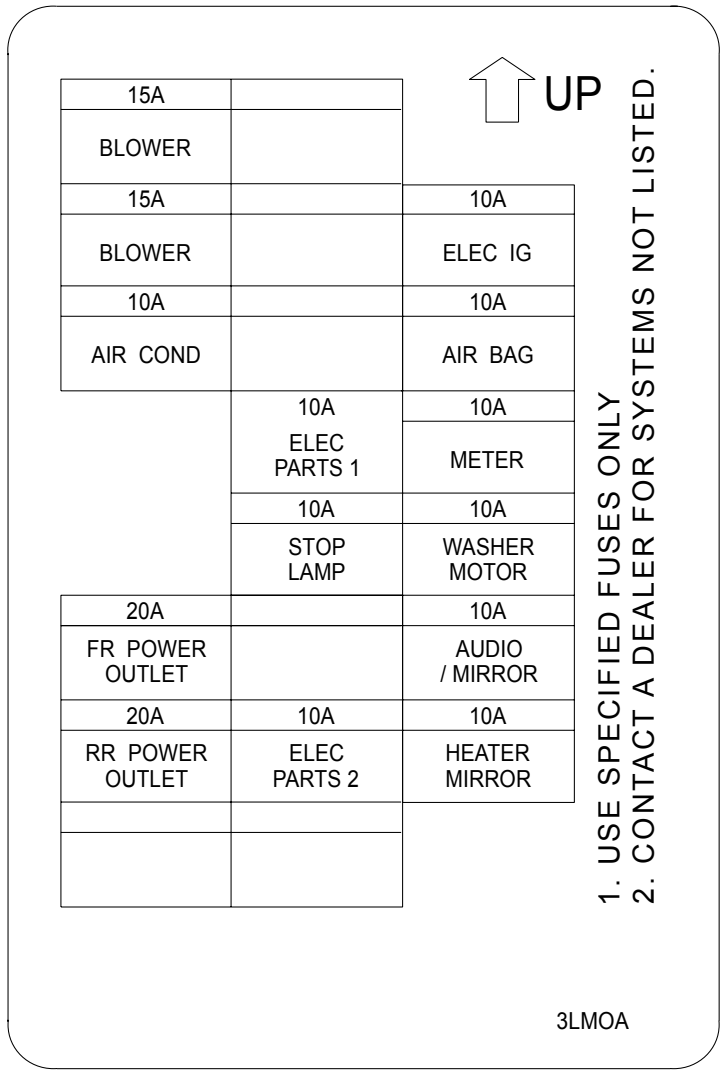
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

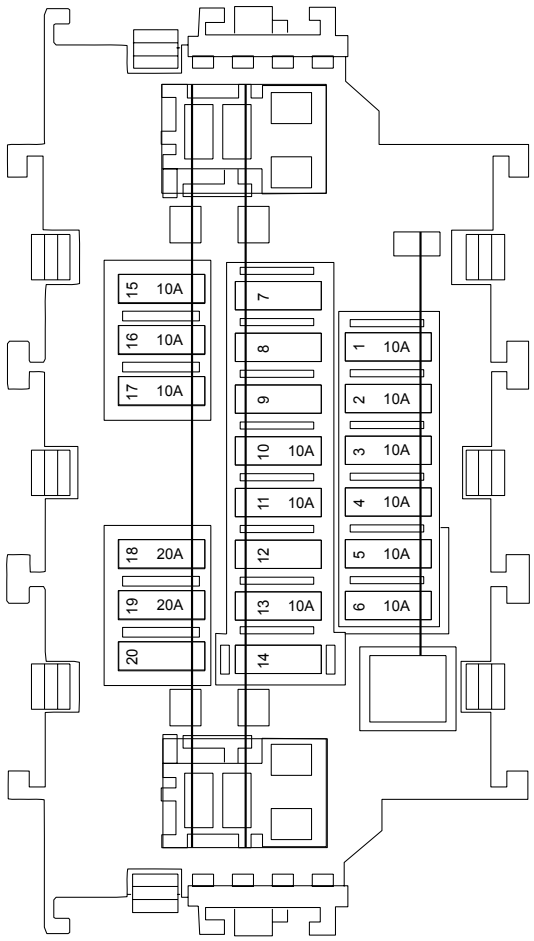
X50A Fuse Block - Underhood X8

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	DAE2	Ground	-	-
2	-	PK	AR02	Right Cooling Fan Motor High/Low Speed Control	-	-
3-4	-	-	-	Not Occupied	-	-
5	-	RD	NA01	Rear Defogger Relay Supply Voltage	-	-
6	-	-	-	Not Occupied	-	-

X51A Fuse Block - Instrument Panel Label



X51A Fuse Block - Instrument Panel Top View

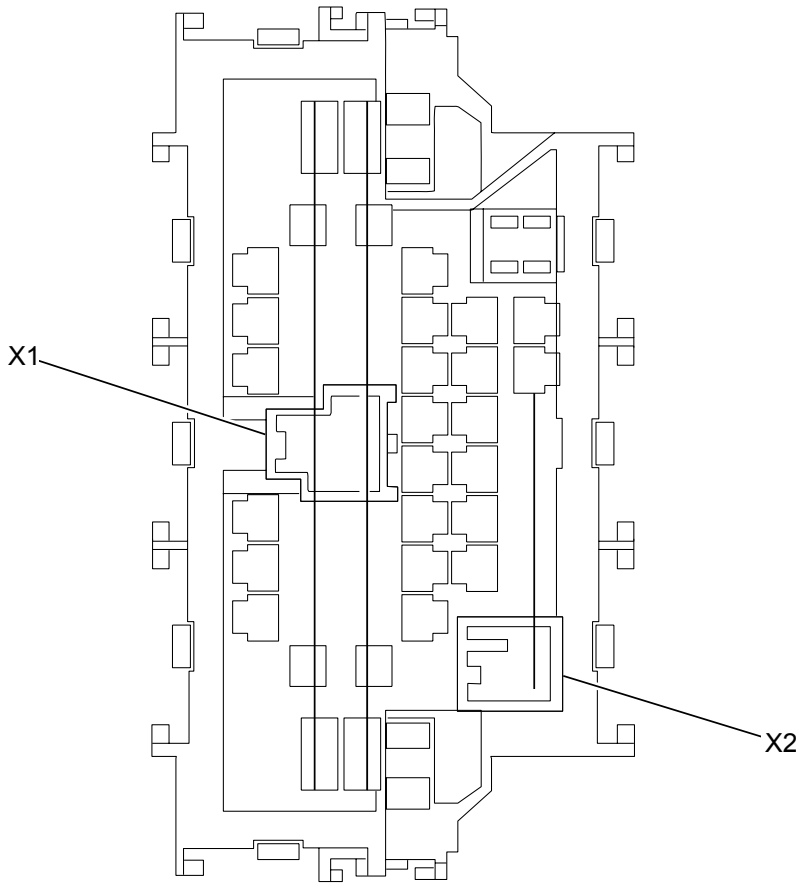


X51A Fuse Block - Instrument Panel Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	ELEC IGN	F1DA	10A	K9 Body Control Module, K65 Tire Pressure Indicator Module, KR73 Ignition Main Relay
2	AIR BAG	F2DA	10A	K36 Inflatable Restraint Sensing and Diagnostic Module, K85 Passenger Presence Module
3	METER	F3DA	10A	B103 Stop Lamp Switch, K43 Power Steering Control Module, P16 Instrument Cluster, S7 Cruise Control Brake Switch (K34), K82 Mobile Telephone Control Module (UPF), X84 Data Link Connector
4	WASHER MOTOR	F4DA	10A	G24 Windshield Washer Pump, S78 Turn Signal/Multifunction Switch
5	AUDIO/MIRROR	F5DA	10A	A11 Radio, K9, K82 Mobile Telephone Control Module (UPF), S52 Outside Rearview Mirror Switch (DR6)
6	HEATER MIRROR	F6DA	10A	E17D Outside Rearview Mirror Glass - Driver (DR6), E17P Outside Rearview Mirror Glass - Passenger (DR6)
7	-	F7DA	-	Not Used
8	-	F8DA	-	Not Used

8	-	F8DA	-	Not Used
9	-	F9DA	-	Not Used
10	ELEC PARTS1	F10DA	10A	B56 Ignition Key In Switch, P16 Instrument Cluster, X84 Data Link Connector
11	STOP LAMP	F11DA	10A	B103 Stop Lamp Switch
12	-	F12DA	-	Not Used
13	ELEC PARTS2	F13DA	10A	K9 Body Control Module
14	-	F14DA	-	Not Used
15	BLOWER	F15DA	10A	M8 Blower Motor
16	BLOWER	F16DA	10A	M8 Blower Motor
17	AIR COND	F17DA	10A	B39 A/C Evaporator Temperature Sensor, S34 HVAC Controls Switch Assembly
18	FR POWER OUTLET	F18DA	10A	X80H Accessory Power Receptacle - Center Console
19	RR POWER OUTLET	F19DA	20A	X80L Accessory Power Receptacle - Rear Console
20	-	F20DA	-	Not Used
-	-	KR32E Blower Motor Relay	-	F15DA, F16DA, F17DA
-	-	KR80 Accessory Relay	-	F18DA, F19DA

X51A Fuse Block - Instrument Panel Bottom View



X51A Fuse Block - Instrument Panel Wire Entry

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 24311_3UB0A

Service Connector: Service by Component Assembly - See Part Catalog

Description: Wire Entry Fuse Block

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X51A Fuse Block - Instrument Panel Wire Entry

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Fuses						
1	-	OG	DA37	Run/Crank Ignition Voltage	-	-
2	-	D-BU	FB01	Run/Crank Ignition Voltage	-	-
3	-	WH	MA02	Run/Crank Ignition Voltage	-	-
4	-	D-GN	WA11	Run/Crank Ignition Voltage	-	-
5	-	D-BU	RA02	Accessory/Run Ignition Voltage	-	-
6	-	L-BU	KC02	Mirror Heating Element Supply Voltage	-	DE5 or DR6
7-9	-	-	-	Not Used	-	-
10	-	L-GN	PD32	Battery Positive Voltage	-	-
11	-	D-BU	LS01	Battery Positive Voltage	-	-
12	-	-	-	Not Used	-	-
13	-	YE	DA35	Battery Positive Voltage	-	-
14	-	-	-	Not Used	-	-
15	-	YE	HA01	Blower Motor Relay Supply Voltage	-	-
16	-	YE	HA01	Blower Motor Relay Supply Voltage	-	-
17	-	D-GN	HA09	Blower Motor Relay Supply Voltage	-	-
18	-	D-BU	GA02	Accessory Relay Supply Voltage	-	-
19	-	RD	GA01	Accessory Relay Supply Voltage	-	ATG
20	-	-	-	Not Used	-	-
Relays						
1_1	-	YE	DA15	Run Ignition Voltage	-	-

1_2	-	BK	DAE5	Ground	-	-
1_3	-	-	-	Blower Motor Relay Supply Voltage	-	-
1_4	-	-	-	Not Used	-	-
1_5	-	-	-	Battery Positive Voltage	-	-
2_1	-	TN	DA13	Accessory/Run Ignition Voltage	-	-
2_2	-	D-BU	DAE6	Ground	-	-
2_3	-	-	-	Accessory Relay Supply Voltage	-	-
2_4	-	-	-	Not Used	-	-
2_5	-	-	DA03	Battery Positive Voltage	-	-

X51A Fuse Block - Instrument Panel X1

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Connector Part Information

Harness Type: Instrument Panel

OEM Connector: L01FW-MC

Service Connector: Service by Harness - See Parts Catalog

Description: Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X51A Fuse Block - Instrument Panel X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	WH	DA03	Battery Positive Voltage	-	-

X51A Fuse Block - Instrument Panel X2

–

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: M01FW-LC

Service Connector: Service by Harness - See Parts Catalog

Description: Ring Terminal

Terminal Part Information

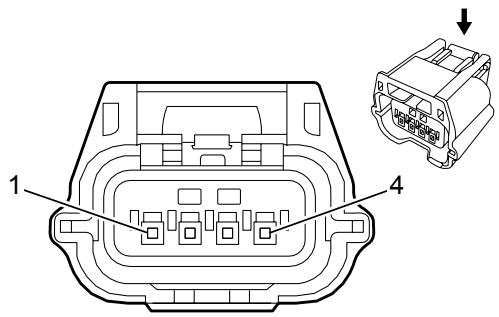
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X51A Fuse Block - Instrument Panel X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	DA14	Run/Crank Ignition Voltage	-	-

Component Connector End Views

A2LF Tire Pressure Receiver - Left Front



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: RH04FB

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 0.64 Series, Sealed (BK)

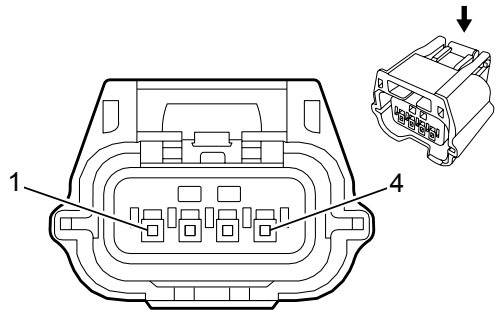
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A2LF Tire Pressure Receiver - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BN	MP05	Left Front Tire Pressure Receiver Low Reference	-	-
2	-	WH	MP02	Left Front Tire Pressure Receiver Serial Data	-	-
3	-	RD	MP03	Left Front Tire Pressure Receiver Signal	-	-
4	-	L-GN	MP04	Left Front Tire Pressure Receiver Supply Voltage	-	-

A2LR Tire Pressure Receiver - Left Rear



Connector Part Information

Harness Type: Body

OEM Connector: RH04FB

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 0.64 Series, Sealed (BK)

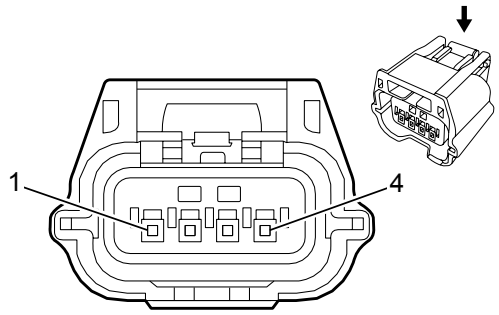
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A2LR Tire Pressure Receiver - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	GY	MP17	Left Rear Tire Pressure Receiver Supply Voltage	-	-
2	-	PK	MP16	Left Rear Tire Pressure Receiver Signal	-	-
3	-	BU	MP15	Left Rear Tire Pressure Receiver Serial Data	-	-
4	-	VT	MP18	Left Rear Tire Pressure Receiver Low Reference	-	-

A2RF Tire Pressure Receiver - Right Front



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: RH04FB

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 0.64 Series, Sealed (BK)

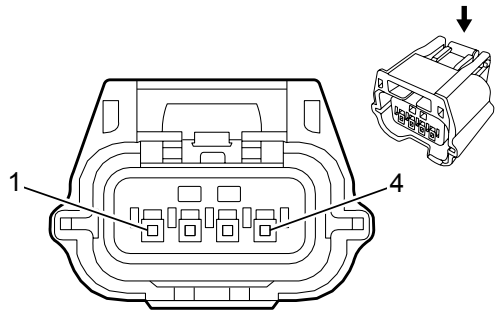
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A2RF Tire Pressure Receiver - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	VT	MP08	Right Front Tire Pressure Receiver Supply Voltage	-	-
2	-	GN	MP07	Right Front Tire Pressure Receiver Signal	-	-
3	-	BN	MP06	Right Front Tire Pressure Receiver Serial Data	-	-
4	-	GY	MP09	Right Front Tire Pressure Receiver Low Reference	-	-

A2RR Tire Pressure Receiver - Right Rear



Connector Part Information

Harness Type: Body

OEM Connector: RH04FB

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 0.64 Series, Sealed (BK)

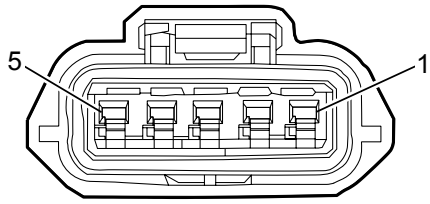
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A2RR Tire Pressure Receiver - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-BU	MP13	Right Rear Tire Pressure Receiver Supply Voltage	-	-
2	-	BU	MP12	Right Rear Tire Pressure Receiver Signal	-	-
3	-	GN	MP11	Right Rear Tire Pressure Receiver Serial Data	-	-
4	-	L-GN	MP14	Right Rear Tire Pressure Receiver Low Reference	-	-

A7 Fuel Pump and Level Sensor Assembly



Connector Part Information

Harness Type: Body

OEM Connector: E05FGY-RS

Service Connector: Service by Harness - See Part Catalog

Description: 5-Way F 090 Series, Sealed (GY)

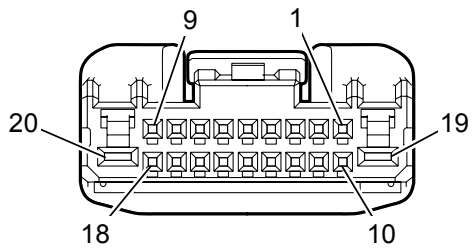
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A7 Fuel Pump and Level Sensor Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	GN	AC20	Fuel Pump Relay Supply Voltage	-	-
2	-	BN	MA05	Fuel Level Sensor Signal	-	-
3	-	BK	AE06	Ground	-	-
4	-	BU	AB43	Fuel Temperature Signal	-	-
5	-	GY	MA16	Fuel Level Sensor Low Reference	-	-

A11 Radio X1



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH18FW-CS2

Service Connector: Service by Harness - See Part Catalog

Description: 20-Way F 0.64, 2.3 Series (WH)

Terminal Part Information

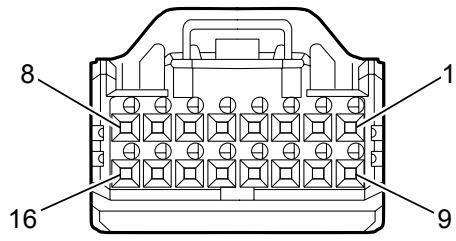
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A11 Radio X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	-	D-BU	RA06	Left Front Speaker (+)	-	-
3	-	PK	RA07	Left Front Speaker (-)	-	-
4	-	-	RA10	Not Used	-	-
5	-	-	RA11	Not Used	-	-
6	-	TN WH	RT16 RT50	Steering Wheel Resistor Ladder Output Signal (1)	-	CWM U1B with UPF
7	-	D-BU	RA02	Accessory/Run Ignition Voltage	-	-
8	-	BK D-BU	RAE1 RA91	Ground CAN Bus High Serial Data (+)	-	U1B with UPF CWM
9	-	VT	RA03	Tail Lamps Relay Supply Voltage	-	-
10	-	-	-	Not Occupied	-	-
11	-	D-GN	RA04	Right Front Speaker (+)	-	-
12	-	RD	RA05	Right Front Speaker (-)	-	-
13-14	-	-	-	Not Occupied	-	-
15	-	BK	RT18	Steering Wheel Resistor Ladder Output Low Reference	-	U1B with UPF

15	-	BK	RT118 RTE3	Steering Wheel Resistor Ladder Output Low Reference Ground	-	U1B with UPF CWM
16	-	YE BU	RT17 RT51	Steering Wheel Resistor Ladder Output Signal (2) Steering Wheel Resistor Ladder Input Signal (2)	-	U1B with UPF CWM
17	-	PK	RA92	CAN Bus High Serial Data (-)	-	CWM
18	-	WH	RA19	Vehicle Speed Signal	-	
19	-	RD	RA01	Battery Positive Voltage	-	-
20	-	BK	RAE2	Ground	-	CWM

A11 Radio X2 (U1B with UPF)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH16FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 16-Way F 025 Series (NA)

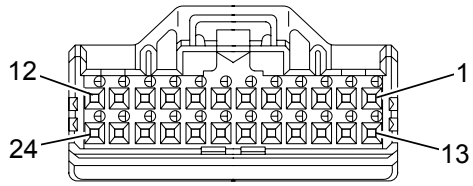
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A11 Radio X2 (U1B with UPF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-4	-	-	-	Not Occupied	-	-
5	-	L-BU	RA12	CAN Bus Medium Serial Data (+)	-	-
6	-	L-BU	RT10	CAN Bus Medium Serial Data (+)	-	-
7	-	L-GN	RT11	CAN Bus Medium Serial Data (-)	-	-
8-11	-	-	-	Not Occupied	-	-
12	-	RD	RT12	Cellular Telephone Mute Control	-	-
13	-	L-GN	RA13	CAN Bus Medium Serial Data (-)	-	-
14	-	BK	RT13	CAN Bus Medium Serial Data (-)	-	-
15	-	WH	RT14	Mobile Phone Audio Output Minus Signal	-	-
16	-	BK	RTE1	Ground	-	-

A11 Radio X2 (CWM)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH24FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 24 Way F 025 Series (NA)

Terminal Part Information

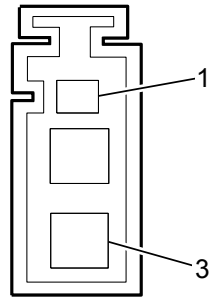
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A11 Radio X2 (CWM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	WH	RI41	Right Auxiliary Audio Signal	-	-
2	-	BK	RI42	Auxiliary Audio Common Signal	-	-
3	-	RD	RI40	Left Auxiliary Audio Signal	-	-
4	-	-	-	Not Occupied	-	-
5	-	D-GN	RA14	Backup Lamp Supply Voltage Signal	-	-
6-9	-	-	-	Not Occupied	-	-
10	-	L-BU	RA40	Multi Remote Entry Signal	-	-
11-12	-	-	-	Not Occupied	-	-
13	-	BK	RAE1	Ground	-	-
14	-	D-GN	RT05	Cellular Telephone Microphone Signal	-	-
15	-	RD	RT07	Cellular Telephone Microphone Supply Voltage	-	-
16	-	BK	RTE2	Ground	-	-
17-19	-	-	-	Not Occupied	-	-
20	-	WH	RA60	Run/Crank Ignition Voltage	-	-
21	-	D-BU	RG06	Camera Signal (+)	-	-

22	-	BK	RGE1	Ground	-	-
23	-	D-GN	RG04	Camera 6 Volt Supply Volt	-	-
24	-	YE	RG05	Camera Signal (-)	-	-

A11 Radio X3



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: Not Available

Service Connector: Service by Harness Assembly - See Part Catalog

Description: 3-Way F (GY)

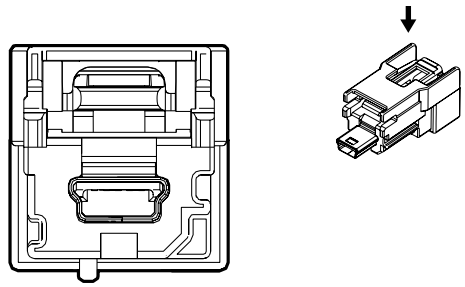
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A11 Radio X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	-	Antenna Amplifier ON Signal	-	-
2	-	BK	-	AM/FM Antenna Signal	-	-
3	-	-	-	Not Occupied	-	-

A11 Radio X4 (CWM)



Connector Part Information

Harness Type: Instrument Panel LVDS

OEM Connector: 111014-9000

Service Connector: Service by Cable Assembly - See Part Catalog

Description: 5-Way M 2.0 Mini B USB Type (BK)

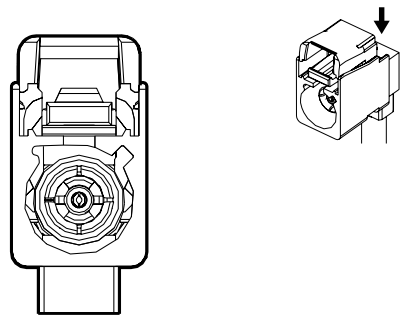
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A11 Radio X4 (CWM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
-	-	LVDS	-	Navigation Display Signal	I	-

A11 Radio X5 (CWM)



Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: Not Available

Service Connector: Service by Cable Assembly - See Part Catalog

Description: 1-Way F Coax Type (BU)

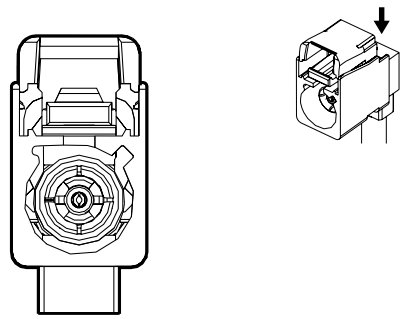
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A11 Radio X5 (CWM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
-	-	Coax	-	Coaxial Antenna GPS Signal	I	-

A11 Radio X6 (CWM)



Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: Not Available

Service Connector: Service by Cable Assembly - See Part Catalog

Description: 1-Way F Coax Type (PK)

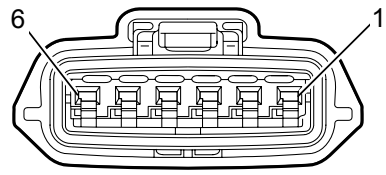
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A11 Radio X6 (CWM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
-	-	Coax	-	Coaxial Antenna XM Signal	I	-

A23D Door Latch Assembly - Driver



Connector Part Information

Harness Type: Driver Door

OEM Connector: E06FGY-RS

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 090 Series, Sealed (GY)

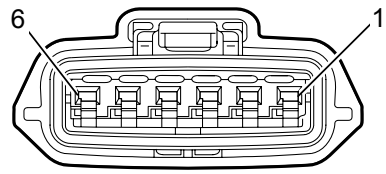
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A23D Door Latch Assembly - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BN	PD18	Door Lock Motor Lock Control	-	-
2	-	WH	PD19	Driver Door Lock Motor Unlock Control	-	-
3	-	-	-	Not Occupied	-	-
4	-	BK	PDE7	Ground	-	-
5	-	WH	PD28	Door Lock Key Switch Unlock Signal	-	-
6	-	WH	PD17	Door Lock Key Switch Lock Signal	-	-

A23P Door Latch Assembly - Passenger



Connector Part Information

Harness Type: Passenger Door

OEM Connector: E06FGY-RS

Service Connector: Service by Harness - See Part Catalog

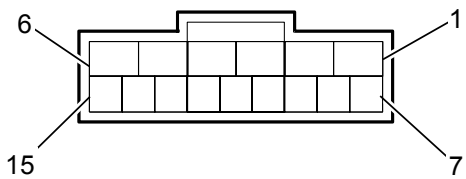
Description: 6-Way F 090 Series, Sealed (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A23P Door Latch Assembly - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-4	-	-	-	Not Occupied	-	-
5	-	BN	PD20	Passenger Door Lock Motor Lock Control	-	-
6	-	WH	PD21	Passenger Door Lock Motor Unlock Control	-	-



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: SEA09FB-SHA6

Service Connector: Service by Harness - See Part Catalog

Description: 15-Way F 060, 2.8 Series (BK)

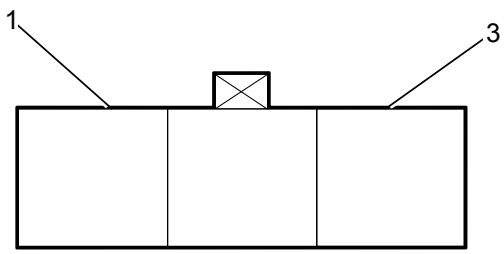
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A26 HVAC Controls

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	HAE6	Ground	-	-
2	-	PK	HA03	Blower Motor High Speed Control	-	-
3	-	D-BU	HA04	Blower Motor Medium High Speed Control	-	-
4	-	RD	HA05	Blower Motor Medium Low Speed Control	-	-
5	-	WH	HA06	Blower Motor Low Speed Control	-	-
6	-	BN	HA07	Blower Motor On/Off Switch Signal	-	-
7	-	BK	HAE4	Ground	-	-
8	-	D-GN	HA09	Blower Motor Relay Supply Voltage	-	-
9	-	L-BU	HA11	A/C Request Indicator Signal	-	-
10	-	YE	HA20	A/C Request Switch Signal	-	-
11	-	-	-	Not Occupied	-	-
12	-	BK	HAE1	Ground	-	-
13	-	GY	NA03	Rear Defog Switch Signal	-	-
14	-	BN	NA02	Rear Defogger Relay Supply Voltage	-	-
15	-	BN	HA30	Tail Lamps Relay Supply Voltage	-	-

B1 A/C Refrigerant Pressure Sensor



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: RK03FB

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 090 Series, Sealed (BK)

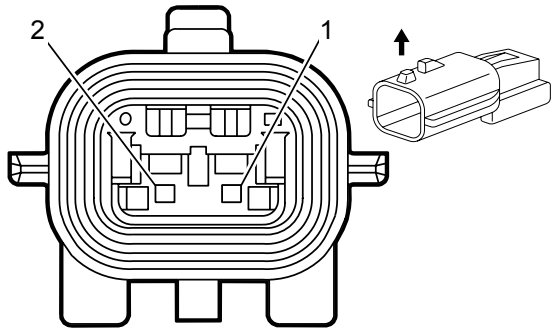
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B1 A/C Refrigerant Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	WH	HA33	A/C Refrigerant Pressure Sensor 5 Volt Reference	-	-
2	-	L-BU	HA31	A/C Refrigerant Pressure Sensor Signal	-	-
3	-	GY	HA32	A/C Refrigerant Pressure Sensor Low Reference	-	-

B5LF Wheel Speed Sensor - Left Front



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: RH02MB

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 064 RH Series, Sealed (BK)

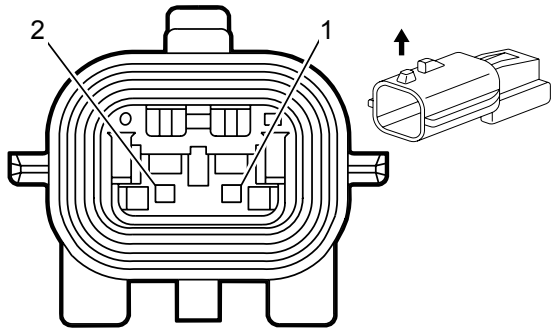
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B5LF Wheel Speed Sensor - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BN	BS27	Wheel Speed Sensor Low Reference Left Front	-	-
2	-	YE	BS26	Wheel Speed Sensor Signal Left Front	-	-

B5LR Wheel Speed Sensor - Left Rear



Connector Part Information

Harness Type: Body

OEM Connector: RH02MGY

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 064 RH Series, Sealed (BK)

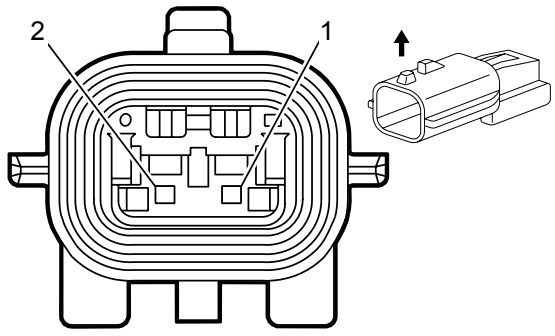
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B5LR Wheel Speed Sensor - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	BS31	Wheel Speed Sensor Signal Left Rear	-	-
2	-	WH	BS30	Wheel Speed Sensor Low Reference Left Rear	-	-

B5RF Wheel Speed Sensor - Right Front



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: RH02MB

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 064 RH Series, Sealed (BK)

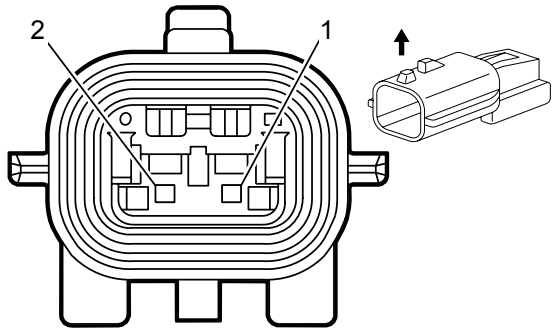
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B5RF Wheel Speed Sensor - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	GN	BS25	Wheel Speed Sensor Low Reference Right Front	-	-
2	-	RD	BS24	Wheel Speed Sensor Signal Right Front	-	-

B5RR Wheel Speed Sensor - Right Rear



Connector Part Information

Harness Type: Body

OEM Connector: RH02MGY

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 064 RH Series, Sealed (BK)

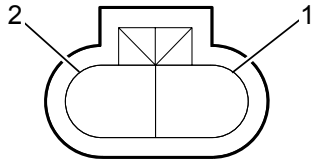
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B5RR Wheel Speed Sensor - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PU	BS29	Wheel Speed Sensor Signal Right Rear	-	-
2	-	BU	BS28	Wheel Speed Sensor Low Reference Right Rear	-	-

B9 Ambient Air Temperature Sensor



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: RS02FB

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 040 Series, Sealed (BK)

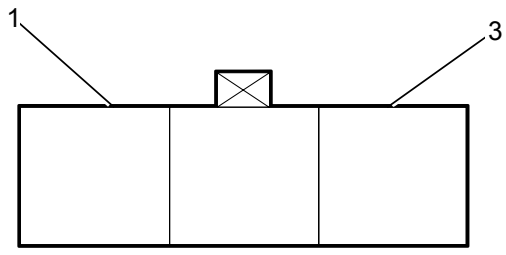
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B9 Ambient Air Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-GN	MA62	Outside Ambient Temperature Sensor Low Reference	-	-
2	-	VT	MA61	Outside Ambient Air Temperature Sensor Signal	-	-

B14A Transmission Output Speed Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: RK03FB

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 090 Series, Sealed (BK)

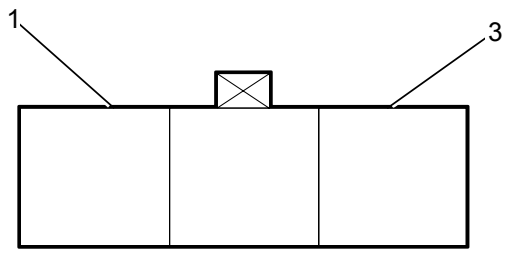
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B14A Transmission Output Speed Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	BA51	Sensor Low Reference	-	-
2	-	RD	BA31	Transmission Output Speed Sensor Signal	-	-
3	-	L-GN	BA52	Ignition Main Relay Supply Voltage	-	-

B14B Transmission Turbine Speed Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: RK03FB

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 090 Series, Sealed (BK)

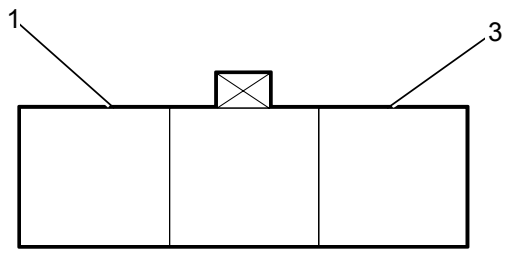
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B14B Transmission Turbine Speed Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	BA53	Sensor Low Reference	-	-
2	-	L-BU	BA54	Transmission Turbine Speed Sensor Signal	-	-
3	-	L-GN	BA55	Ignition Main Relay Supply Voltage	-	-

B14C Transmission Input Speed Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: RK03FB

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 090 Series, Sealed (BK)

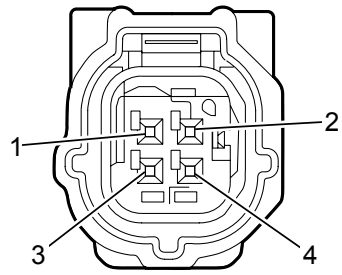
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B14C Transmission Input Speed Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	BA50	Sensor Low Reference	-	-
2	-	OG	BA29	Transmission Input Speed Sensor Signal	-	-
3	-	L-GN	BA30	Ignition Main Relay Supply Voltage	-	-

B18 Battery Current Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: SAZ04FGY

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 0.64 Series (GY)

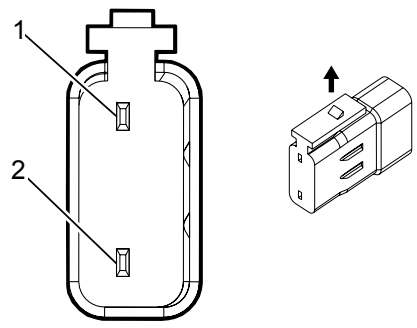
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B18 Battery Current Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	-	BK	AI01	Sensor 5 Volt Reference	-	-
3	-	GN	AI02	Current Sensor Signal	-	-
4	-	BN	AI03	Sensor Low Reference	-	-

B20 Brake Fluid Level Switch



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: YV02FGY

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F (GY)

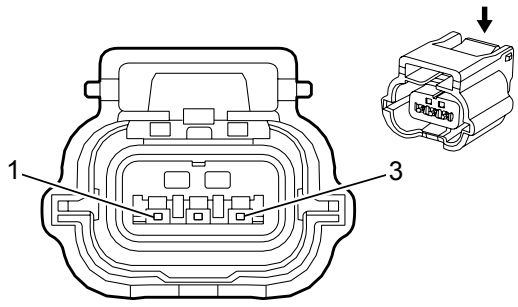
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B20 Brake Fluid Level Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BN	MA06	Brake Fluid Level Sensor Signal	-	-
2	-	L-GN	MAE5	Ground	-	-

B23 Camshaft Position Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: RH03FB

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 0.64 Series, Sealed (BK)

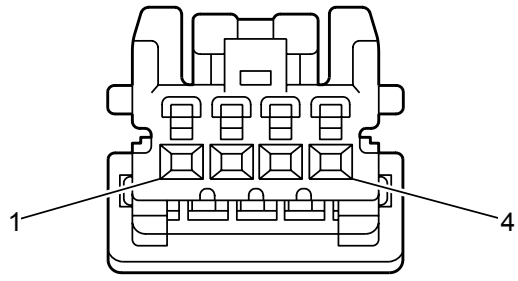
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B23 Camshaft Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BU	AC44	Camshaft Position Sensor 5 Volt Reference	-	-
2	-	BK	AC38	Camshaft Position Sensor Low Reference	-	-
3	-	RD	AC37	Camshaft Position Sensor Signal	-	-

B24 Cellular Phone Microphone (CWM or UPF)



Connector Part Information

Harness Type: Headliner

OEM Connector: TK04FW

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F040 III Series (NA)

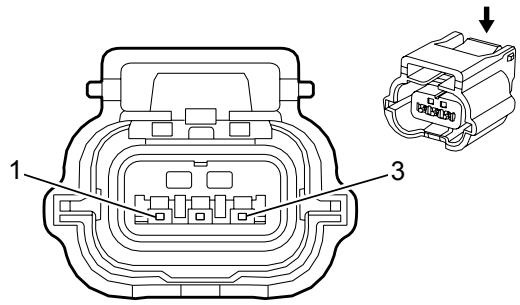
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B24 Cellular Phone Microphone (CWM or UPF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	RT05	Cellular Telephone Microphone Signal	-	-
2	-	BARE	RTE2	Cellular Telephone Microphone Low Reference	-	-
3	-	-	-	Not Occupied	-	-
4	-	RD	RT07	Cellular Telephone Microphone Supply Voltage	-	-

B26 Crankshaft Position Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: RH03FB

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 0.64 Series, Sealed (BK)

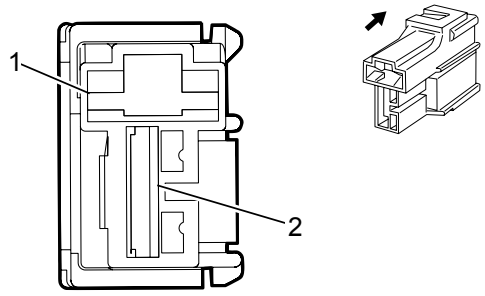
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B26 Crankshaft Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	WH	AC35	Crankshaft Position Sensor Signal	-	-
2	-	RD	AC36	Crankshaft Position Sensor Low Reference	-	-
3	-	BK	AC45	Crankshaft Position Sensor 5 Volt Reference	-	-

B28C Door Ajar Switch - Rear Cargo



Connector Part Information

Harness Type: Back Door

OEM Connector: P02FB-Z

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 250 Series (BK)

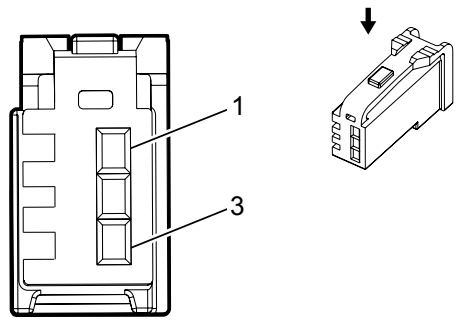
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B28C Door Ajar Switch - Rear Cargo

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	WH	PD40	Rear Cargo Door Ajar Switch Signal	-	-
2	-	BK	PDE8	Ground	-	-

B28D Door Ajar Switch - Driver



Connector Part Information

Harness Type: Body

OEM Connector: A03FW

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 030 Series (NA)

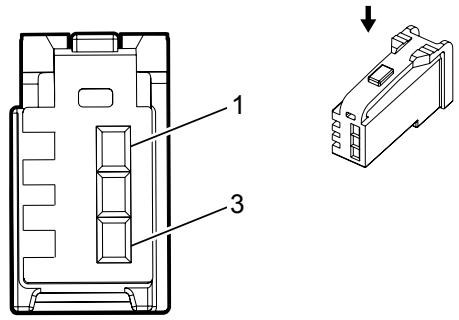
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B28D Door Ajar Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-GN	PD13	Driver Door Ajar Switch Signal	-	-
2-3	-	-	-	Not Occupied	-	-

B28E Door Ajar Switch - Left Sliding



Connector Part Information

Harness Type: Body

OEM Connector: A03FW

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 030 Series (NA)

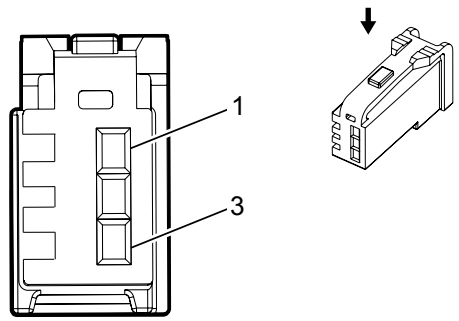
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B28E Door Ajar Switch - Left Sliding

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-GN	PD16	Left Sliding Door Ajar Switch Signal	-	-
2-3	-	-	-	Not Occupied	-	-

B28F Door Ajar Switch - Right Sliding



Connector Part Information

Harness Type: Body

OEM Connector: A03FW

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 090 Series, Sealed (BK)

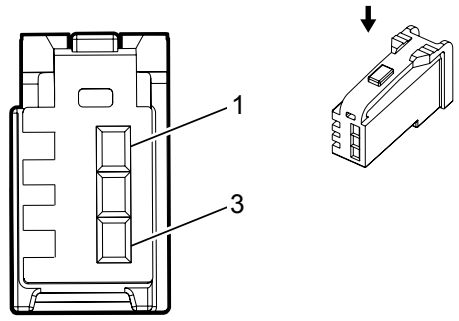
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B28F Door Ajar Switch - Right Sliding

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-GN	PD15	Right Sliding Door Ajar Switch Signal	-	-
2-3	-	-	-	Not Occupied	-	-

B28P Door Ajar Switch - Passenger



Connector Part Information

Harness Type: Body

OEM Connector: A03FW

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 030 Series (NA)

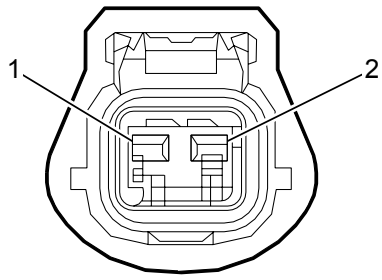
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B28P Door Ajar Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-BU	PD14	Passenger Door Ajar Switch Signal	-	-
2-3	-	-	-	Not Occupied	-	-

B34 Engine Coolant Temperature Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: E02FGY-RS

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F Sealed (GY)

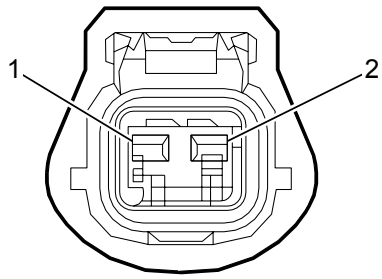
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B34 Engine Coolant Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	AC41	Coolant Temperature Sensor Low Reference	-	-
2	-	PK	AC39	Engine Coolant Temperature Sensor Signal	-	-

B36 Engine Oil Temperature Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: E02FGY-RS

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F Sealed (GY)

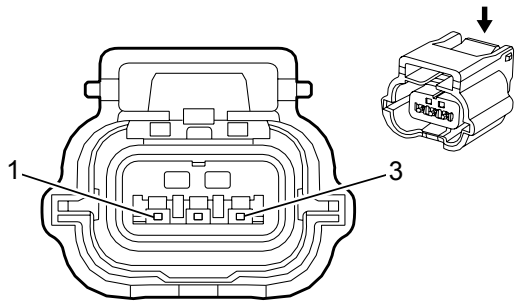
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B36 Engine Oil Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	AB31	Oil Temperature Sensor Signal	-	-
2	-	OG	AB32	Oil Temperature Sensor Low Reference	-	-

B37B Engine Oil Pressure Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: RH03FB

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 0.64 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B37B Engine Oil Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	AA49	Oil Pressure Sensor 5 Volt Reference	-	-
2	-	WH	AA50	Oil Pressure Sensor Low Reference	-	-
3	-	GN	AA51	Oil Pressure Sensor Signal	-	-

GRAPHIC PENDING

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: C04FBR

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F (BN)

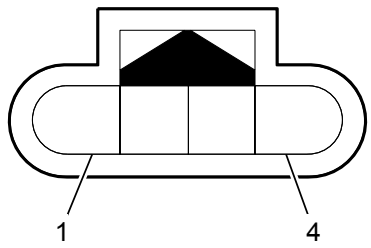
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B39 A/C Evaporator Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-GN	HA10	Blower Motor Relay Supply Voltage	-	-
2	-	BK	HAE3	Ground	-	-
3	-	PK	HA12	EVAP Core Temperature Sensor Signal	-	-
4	-	-	-	Not Occupied	-	-

B52A Heated Oxygen Sensor 1



Connector Part Information

Harness Type: Engine

OEM Connector: RH04MDGY-BR

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way M, Sealed (BN)

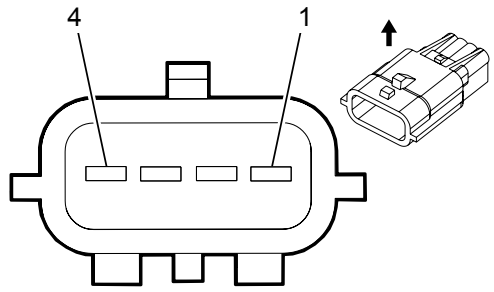
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B52A Heated Oxygen Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-BU	AC27	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor (1)	-	-
2	-	PK	AC30	Heated Oxygen Sensor High Signal Bank 1 Sensor (1)	-	-
3	-	D-GN	AC28	Heated Oxygen Sensor Low Signal Bank 1 Sensor (1)	-	-
4	-	RD	AC29	Ignition Main Relay Supply Voltage	-	-

B52B Heated Oxygen Sensor 2



Connector Part Information

Harness Type: Engine

OEM Connector: RH04MB

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way M 0.64 Series, Sealed (BK)

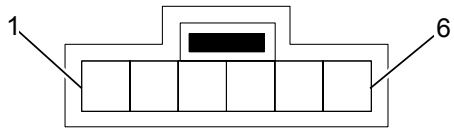
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B52B Heated Oxygen Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-BU	AC89	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor (2)	-	-
2	-	D-GN	AC88	Heated Oxygen Sensor Low Signal Bank 1 Sensor (2)	-	-
3	-	RD	AC87	Ignition Main Relay Supply Voltage	-	-
4	-	WH	AC86	Heated Oxygen Sensor High Signal Bank 1 Sensor (2)	-	-

B56 Ignition Key In Switch



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TK06MGY

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way M 040 Series (GY)

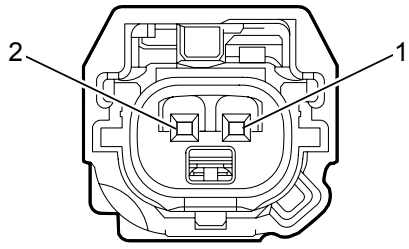
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B56 Ignition Key In Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-3	-	-	-	Not Occupied	-	-
5	-	L-GN	PD32	Battery Positive Voltage	-	-
6	-	WH	PD31	Key In Ignition Switch Signal	-	-

B59 Front Impact Sensor



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: HK02FY-1V-EX-LC

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F040 Series, Sealed (YE)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B59 Front Impact Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	WH	FB04	Middle Front Impact Sensing Module Signal	-	-
2	-	BK	FB05	Middle Front Impact Sensing Module Low Reference	-	-

B62P Seat Position Sensor - Passenger (1)

–

Connector Part Information

Harness Type: Passenger Seat Position Sensor

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B62P Seat Position Sensor - Passenger (1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	GY	-	Passenger Seat Position Sensor 1 Low Reference	-	-
2	-	L-GN	-	Passenger Seat Position Sensor 1 Signal	-	-
3	-	RD	-	Passenger Seat Position Sensor 1 12V Supply	-	-

B62P Seat Position Sensor - Passenger (2)

–

Connector Part Information

Harness Type: Passenger Seat Position Sensor

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F (BK)

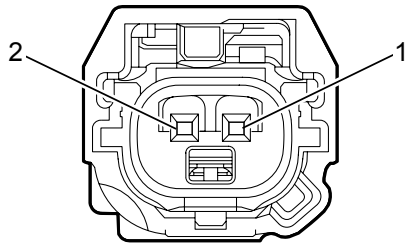
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B62P Seat Position Sensor - Passenger (2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PK	-	Passenger Seat Position Sensor 2 Low Reference	-	-
2	-	L-BU	-	Passenger Seat Position Sensor 2 Signal	-	-
3	-	YE	-	Passenger Seat Position Sensor 2 12V Supply	-	-

B63LF Side Impact Sensor - Left Front



Connector Part Information

Harness Type: Driver Door

OEM Connector: HK02FYU-1V-EX-LC

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 040 Series, Sealed (YE)

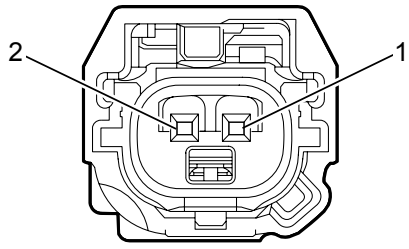
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B63LF Side Impact Sensor - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	WH	FB53	Left Front Side Impact Sensing Module Low Reference	-	-
2	-	OG	FB54	Left Front Side Impact Sensing Module Signal	-	-

B63LM Side Impact Sensor - Left Middle



Connector Part Information

Harness Type: Body

OEM Connector: HK02FY-1V-EX-LC

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F040 Series, Sealed (YE)

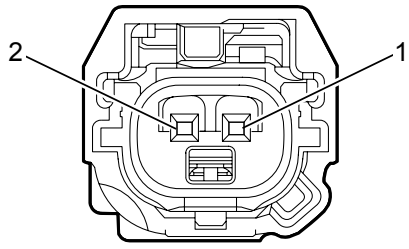
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B63LM Side Impact Sensor - Left Middle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PK/BU	FB42	Left Middle Side Impact Sensing Module Signal	-	-
2	-	D-BU	FB43	Left Middle Side Impact Sensing Low Reference	-	-

B63RF Side Impact Sensor - Right Front



Connector Part Information

Harness Type: Passenger Door

OEM Connector: HK02FY-1V-EX-LC

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F040 Series, Sealed (YE)

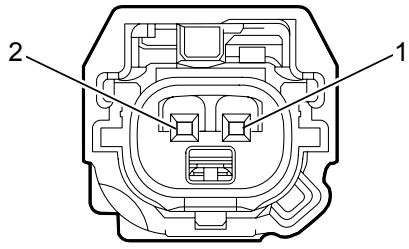
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B63RF Side Impact Sensor - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	FB51	Right Front Side Impact Sensing Module Signal	-	-
2	-	D-GN	FB52	Right Front Side Impact Sensing Module Low Reference	-	-

B63RM Side Impact Sensor - Right Middle



Connector Part Information

Harness Type: Body

OEM Connector: HK02FY-1V-EX-LC

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 040 Series, Sealed (YE)

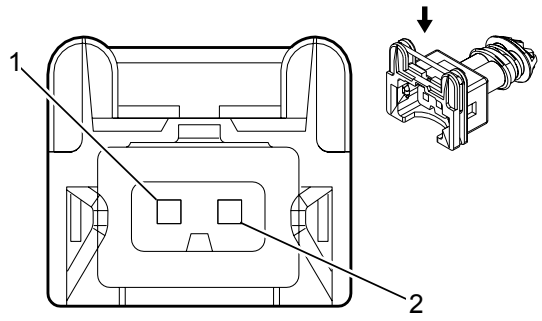
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B63RM Side Impact Sensor - Right Middle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	FB41	Right Middle Side Impact Sensing Module Low Reference	-	-
2	-	WH	FB50	Right Middle Side Impact Sensing Module Signal	-	-

B68 Knock Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: BS02FB-AHY-S

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 2.8 Timer Series, Sealed (BK)

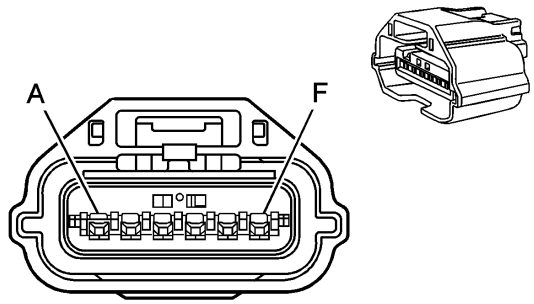
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B68 Knock Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BARE	ABE5	Knock Sensor Low Reference	-	-
2	-	BK	AA60	Knock Sensor Signal	-	-

B75 Mass Air Flow Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: RH06FB

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 0.64 Series, Sealed (BK)

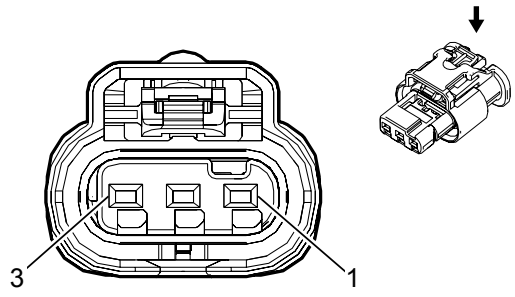
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B75 Mass Air Flow Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	–	-	Not Occupied	-	-
B	-	BN	AC96	Engine Controls Ignition Relay Supply Voltage	-	-
C	-	L-GN	AC40	Mass Air Flow Sensor Low Reference	-	-
D	-	D-GN	AC34	Mass Air Flow Sensor Signal	-	-
E	-	PU	AC72	Intake Air Temperature Sensor Low Reference	-	-
F	-	L-GN	AC47	Intake Air Temperature Sensor Signal	-	-

B78E Rear Object Sensor - Left Middle (UD7)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: ADZ03FB

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 1.2 Multiple Contact Point Series, Sealed (BK)

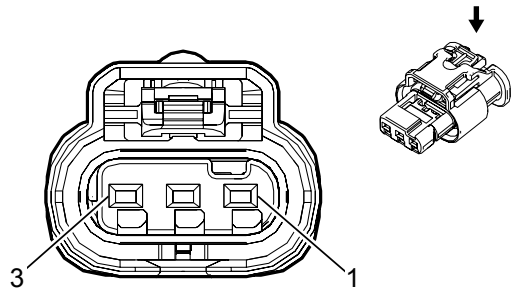
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B78E Rear Object Sensor - Left Middle (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-GN/BN	FD11	Object Sensor Supply Voltage	-	-
2	-	OG	FD13	Left Rear Middle Object Sensor Signal	-	-
3	-	YE	FD12	Object Sensor Low Reference	-	-

B78F Rear Object Sensor - Right Middle (UD7)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: ADZ03FB

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 1.2 Multiple Contact Point Series, Sealed (BK)

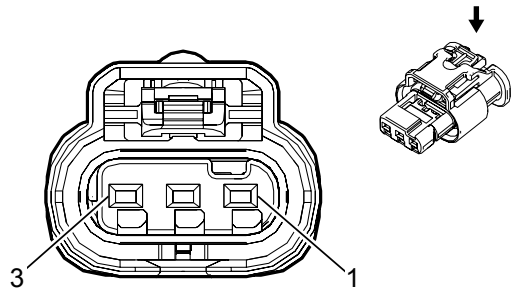
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B78F Rear Object Sensor - Right Middle (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-GN/BN	FD14	Object Sensor Supply Voltage	-	-
2	-	L-GN	FD16	Right Rear Middle Object Sensor Signal	-	-
3	-	YE	FD15	Object Sensor Low Reference	-	-

B78G Rear Object Sensor - Left Outer (UD7)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: ADZ03FB

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 1.2 Multiple Contact Point Series, Sealed (BK)

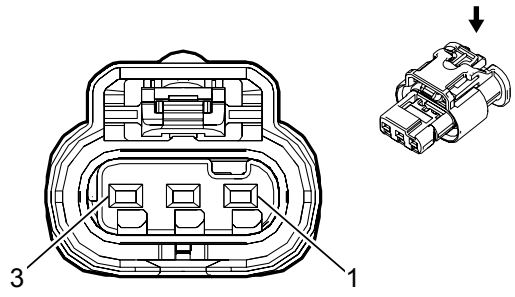
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B78G Rear Object Sensor - Left Outer (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-GN/BN	FD08	Object Sensor Supply Voltage	-	-
2	-	PK	FD10	Left Rear Corner Object Sensor Signal	-	-
3	-	YE	FD09	Object Sensor Low Reference	-	-

B78H Rear Object Sensor - Right Outer (UD7)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: ADZ03FB

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 1.2 Multiple Contact Point Series, Sealed (BK)

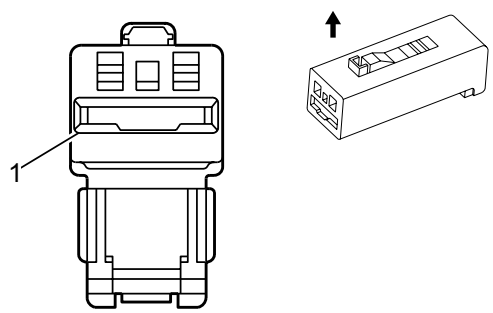
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B78H Rear Object Sensor - Right Outer (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-GN/BN	FD17	Object Sensor Supply Voltage	-	-
2	-	L-GN	FD19	Right Rear Corner Object Sensor Signal	-	-
3	-	YE	FD18	Object Sensor Low Reference	-	-

B80 Park Brake Switch



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: P01FB-A

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F 250 Series (BK)

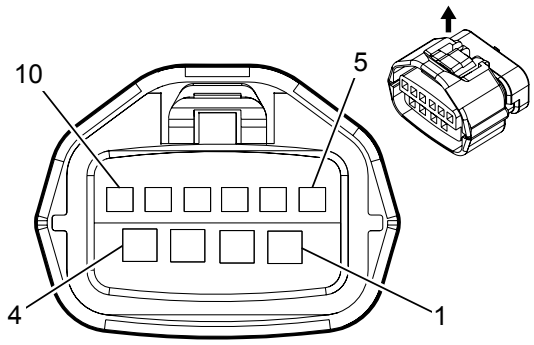
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B80 Park Brake Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-BU	MA07	Park Brake Switch Signal	-	-

B81 Park/Neutral Position Switch



Connector Part Information

Harness Type: Engine

OEM Connector: YDX06FB-HS4

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F, Sealed (BK)

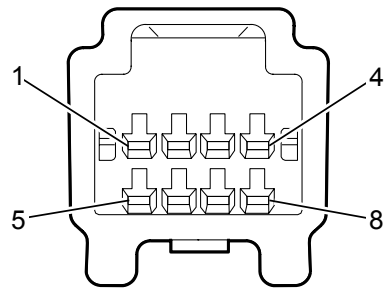
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B81 Park/Neutral Position Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-GN	AH04	Neutral Safety Switch Park/Neutral Signal	-	-
2	-	YE	BA35	Park/Neutral Position Switch Range Signal (N)	-	-
3	-	D-GN	BA34	Park/Neutral Position Switch Range Signal (R)	-	-
4	-	RD	AH05	Ignition Main Relay Supply Voltage	-	-
5	-	VT	BA33	Park/Neutral Position Switch Range Signal (L)	-	-
6	-	PK	BA27	Park/Neutral Position Switch Range Signal (P)	-	-
7	-	L-BU	LR01	Ignition Main Relay Supply Voltage	-	-
8	-	-	-	Not Occupied	-	-
9	-	WH	BA36	Park/Neutral Position Switch Range Signal (D)	-	-
10	-	-	-	Not Occupied	-	-

B87 Rearview Camera (UVC)



Connector Part Information

Harness Type: Back Door

OEM Connector: TH08MW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way M 025 Series (NA)

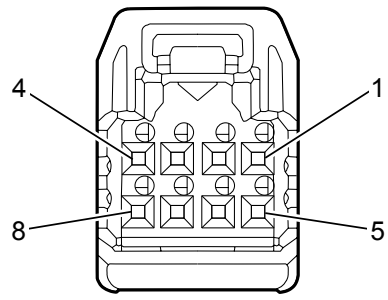
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B87 Rearview Camera (UVC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-GN	RG04	Camera 6 Volt Supply Voltage	-	-
2	-	YE	RG05	Camera Signal (-)	-	-
3	-	D-BU	RG06	Camera Signal (+)	-	-
4	-	BARE	RGE1	Camera Shield Extension	-	-
5-8	-	-	-	Not Occupied	-	-

B99 Steering Wheel Angle Sensor



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH08FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 025 Series (NA)

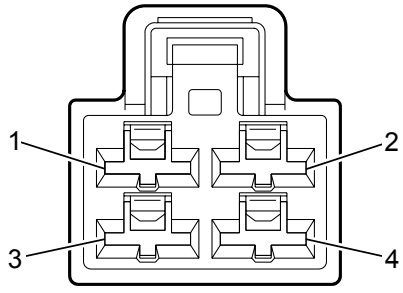
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B99 Steering Wheel Angle Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	BWE1	Ground	-	-
2	-	PK	BW03	CAN Bus High Serial Data (-)	-	-
3	-	-	-	Not Occupied	-	-
4	-	VT	BW01	Ignition Main Relay Supply Voltage	-	-
5	-	BU	BW02	CAN Bus High Serial Data (+)	-	-
6-8	-	-	-	Not Occupied	-	-

B103 Stop Lamp Switch



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: M04FW-LC

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 250 Series (NA)

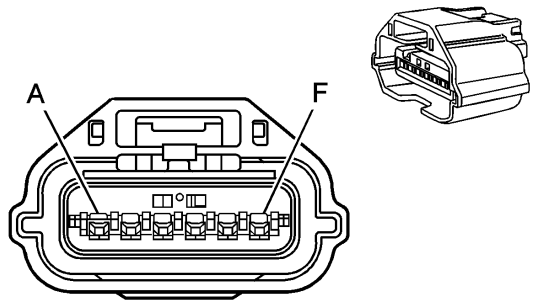
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B103 Stop Lamp Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-GN	FC04	Stop Lamp Switch Signal	-	-
2	-	WH	FC03	Run/Crank Ignition Voltage	-	-
3	-	RD	LS02	Stop Lamp Supply Voltage	-	-
4	-	D-BU	LS01	Battery Positive Voltage	-	-

B107 Accelerator Pedal Position Sensor



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: RH06FB

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 0.64 Series, Sealed (BK)

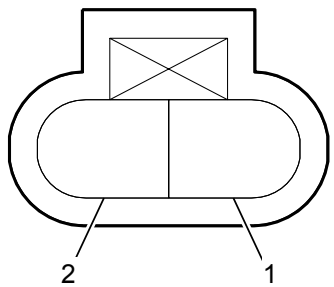
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B107 Accelerator Pedal Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	WH	AC63	Accelerator Pedal Position Signal (2)	-	-
B	-	BN	AC64	Accelerator Pedal Position Low Reference (2)	-	-
C	-	PU	AC61	Accelerator Pedal Position Low Reference (1)	-	-
D	-	L-BU	AC60	Accelerator Pedal Position Signal (1)	-	-
E	-	GY	AC62	Accelerator Pedal Position 5 Volt Reference (1)	-	-
F	-	RD	AC65	Accelerator Pedal Position 5 Volt Reference (2)	-	-

B118B Windshield Washer Fluid Level Switch



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: HS02FW

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F, Sealed (WH)

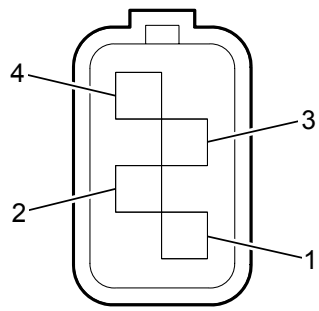
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B118B Windshield Washer Fluid Level Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-GN	WB01	Windshield Washer Fluid Level Sensor Signal	-	-
2	-	BK	WBE2	Ground	-	-

B119 Multi-axis Acceleration Sensor



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: AAZ04FB

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F, Sealed (BK)

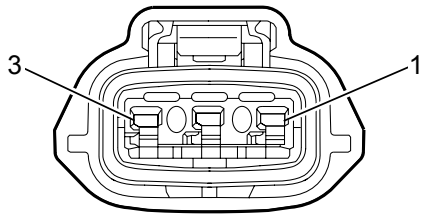
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B119 Multi-axis Acceleration Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	BSE5	Ground	-	-
2	-	WH	BS47	CAN Bus High Serial Data (+)	-	-
3	-	PK	BS45	CAN Bus High Serial Data (-)	-	-
4	-	PU	BS43	Ignition Main Relay Supply Voltage	-	-

B150 Fuel Tank Pressure Sensor



Connector Part Information

Harness Type: Body

OEM Connector: E03FGY-RS

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 090 Series, Sealed (GY)

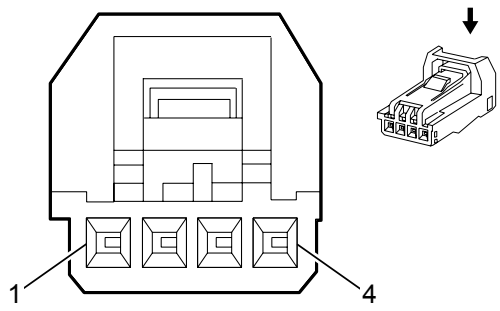
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B150 Fuel Tank Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BN	AC80	Sensor 5 Volt Reference	-	-
2	-	L-GN	AC81	Fuel Tank Pressure Sensor Signal	-	-
3	-	BK	AC82	Sensor Low Reference	-	-

B153D Seat Belt Buckle - Driver



Connector Part Information

Harness Type: Body

OEM Connector: TH04FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.5 Series, Sealed (BK)

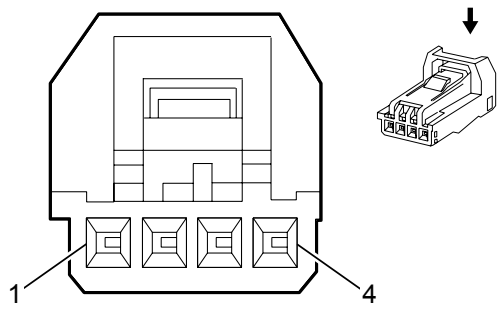
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B153D Seat Belt Buckle - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-BU	FB06	Battery Positive Voltage	-	-
2	-	BK	FBE4	Ground	-	-
3-4	-	-	-	Not Occupied	-	-

B153P Seat Belt Buckle - Passenger



Connector Part Information

Harness Type: Body

OEM Connector: TH04FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.5 Series, Sealed (BK)

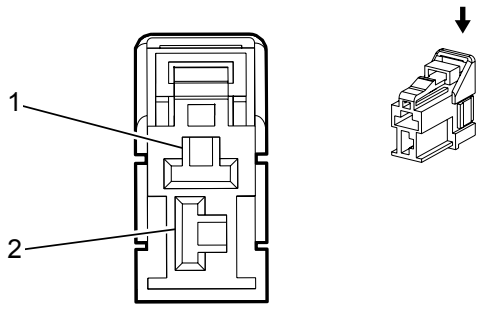
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B153P Seat Belt Buckle - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	FB07	Passenger Seat Belt Switch Signal	-	-
2	-	BK	FBE5	Ground	-	-
3-4	-	-	-	Not Occupied	-	-

C9 Ignition Coil Capacitor



Connector Part Information

Harness Type: Engine

OEM Connector: M02FW-LC

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 250 Series (NA)

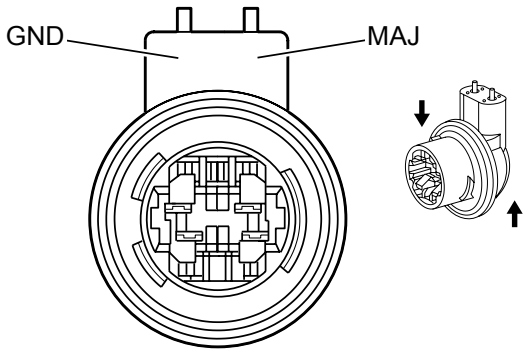
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

C9 Ignition Coil Capacitor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	VT	AC54	Engine Controls Ignition Relay Supply Voltage	-	-
2	-	BK	AE24	Ground	-	-

E4LR Turn Signal Lamp - Left Rear



Connector Part Information

Harness Type: Left Tail Lamp Assembly

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F, Sealed (BK)

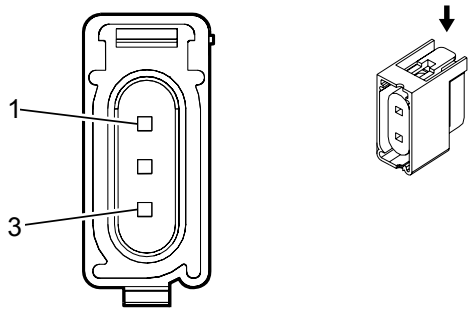
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E4LR Turn Signal Lamp - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
GND	-	BK	LTE1	Ground	-	-
	-	BK	LTE1	Ground	-	-
MAJ	-	D-GN	LD10	Left Turn Signal Lamp Supply Voltage	-	-

E4N Park/Turn Signal Lamp - Left



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: ZFJ-00703–UA

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F Axial 3-Wire Connector Assembly, Sealed (BN)

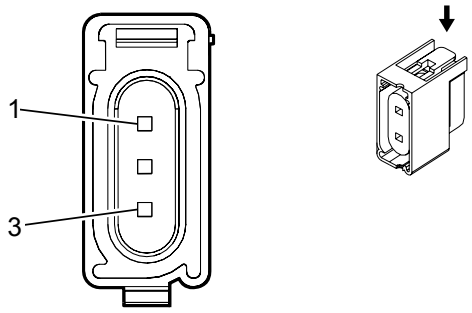
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E4N Park/Turn Signal Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	LDE8	Ground	-	-
2	-	YE	LT05	Tail Lamps Relay Supply Voltage	-	-
3	-	VT	LD18	Left Turn Signal Lamp Supply Voltage	-	-

E4P Park/Turn Signal Lamp - Right



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: ZFJ-00703–UA

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F Axial 3-Wire Connector Assembly, Sealed (BN)

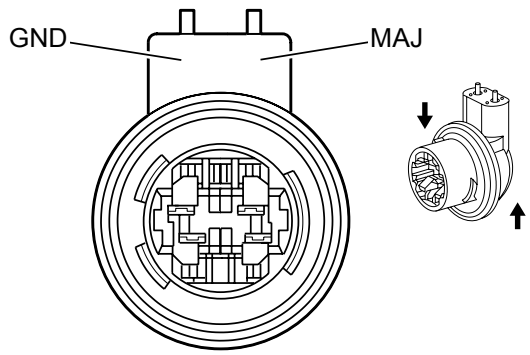
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E4P Park/Turn Signal Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	LDE7	Ground	-	-
2	-	PK	LT06	Tail Lamps Relay Supply Voltage	-	-
3	-	WH	LD17	Right Turn Signal Lamp Supply Voltage	-	-

E4RR Turn Signal Lamp - Right Rear



Connector Part Information

Harness Type: Right Tail Lamp Assembly

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F, Sealed (BK)

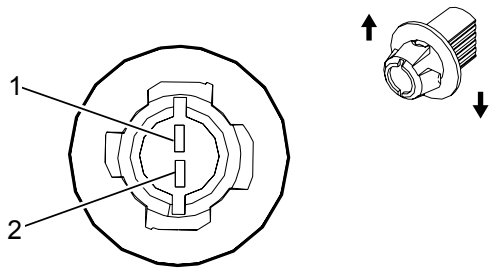
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E4RR Turn Signal Lamp - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
GND	-	BK	LTE2	Ground	-	-
	-	BK	LTE2	Ground	-	-
MAJ	-	D-GN	LD09	Right Turn Signal Lamp Supply Voltage	-	-

E5A Backup Lamp - Left



Connector Part Information

Harness Type: Left Tail Lamp Assembly

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F Lampsocket, Sealed (BK)

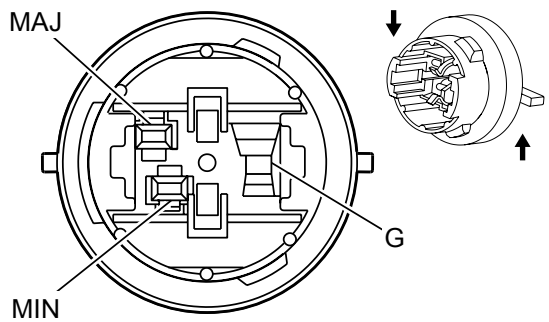
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E5A Backup Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	LTE1	Ground	-	-
	-	BK	LTE1	Ground	-	-
2	-	WH	LR03	Backup Lamp Supply Voltage Signal	-	-

E5AA Tail/Stop Lamp - Left



Connector Part Information

Harness Type: Left Tail Lamp Assembly

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F, Sealed (BK)

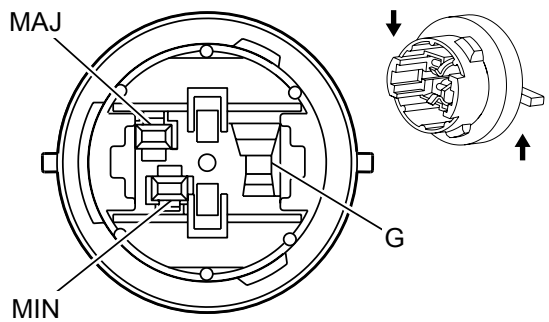
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E5AA Tail/Stop Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
G	-	BK	LTE1	Ground	-	-
MIN	-	GY	LT03	Tail Lamps Relay Supply Voltage	-	-
MAJ	-	RD	LS03	Stop Lamp Supply Voltage	-	-

E5AB Tail/Stop Lamp - Right



Connector Part Information

Harness Type: Right Tail Lamp Assembly

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F, Sealed (BK)

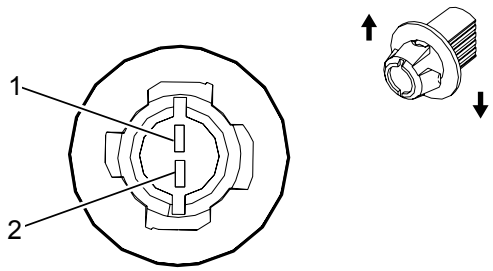
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E5AB Tail/Stop Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
G	-	BK	LTE2	Ground	-	-
MIN	-	GY	LT02	Tail Lamps Relay Supply Voltage	-	-
MAJ	-	RD	LS02	Stop Lamp Supply Voltage	-	-

E5B Backup Lamp - Right



Connector Part Information

Harness Type: Right Tail Lamp Assembly

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F Lampsocket, Sealed (BK)

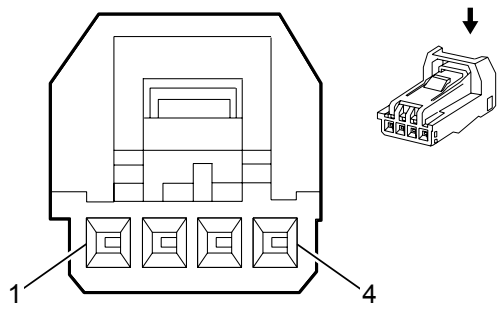
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E5B Backup Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	LTE2	Ground	-	-
	-	BK	LTE2	Ground	-	-
2	-	WH	LR04	Backup Lamp Supply Voltage Signal	-	-

E6 Center High Mounted Stop Lamp



Connector Part Information

Harness Type: Back Door Extension

OEM Connector: TH04FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.5 Series, Sealed (BK)

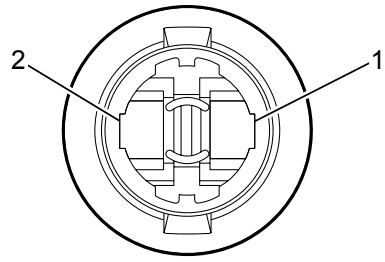
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E6 Center High Mounted Stop Lamp

1	-	BK	LSE1	Ground	-	-
2-3	-	-	-	Not Occupied	-	-
4	-	RD	LS04	Stop Lamp Supply Voltage	-	-

E7L License Plate Lamp - Left



Connector Part Information

Harness Type: License Plate

OEM Connector: STL02FW

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F Sealed (NA)

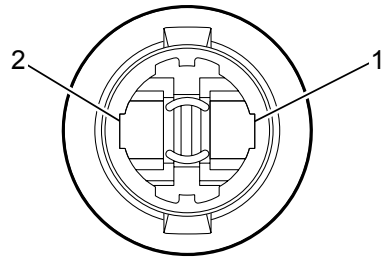
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E7L License Plate Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PU	LL02	Tail Lamps Relay Supply Voltage	-	-
2	-	BK	LLE2	Ground	-	-

E7R License Plate Lamp - Right



Connector Part Information

Harness Type: License Plate

OEM Connector: STL02FW

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F Sealed (NA)

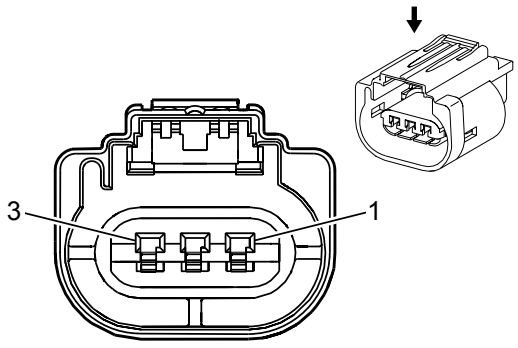
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E7R License Plate Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PU	LL01	Tail Lamps Relay Supply Voltage	-	-
2	-	BK	LLE1	Ground	-	-

E13L Headlamp - Left



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: ZFJ-07091-UO

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 1.5 Series, Sealed (WH)

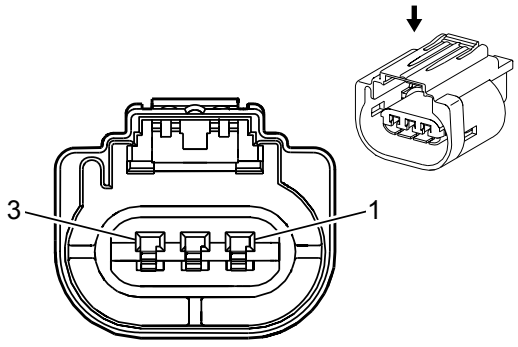
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E13L Headlamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	WH	LA06	Headlamp Low Beam Relay Supply Voltage	-	-
2	-	BK	LAE3	Ground	-	-
3	-	D-GN	LA05	Headlamp High Beam Relay Supply Voltage	-	-

E13R Headlamp - Right



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: ZFJ-07091-UO

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 1.5 Series, Sealed (WH)

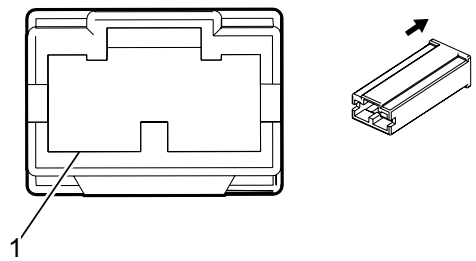
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E13R Headlamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-BU	LA45	Headlamp Low Beam Relay Supply Voltage Daytime Running Lamps Relay 2 Supply Voltage	-	EF7 Z49
2	-	RD	LA40	Daytime Running Lamps Relay 1 Supply Voltage	-	-
3	-	YE	LA03	Headlamp High Beam Relay Supply Voltage	-	-

E18 Rear Defogger Grid X1 (C49)



Connector Part Information

Harness Type: Rear Defogger

OEM Connector: P01FB-A

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F 250 Series (BK)

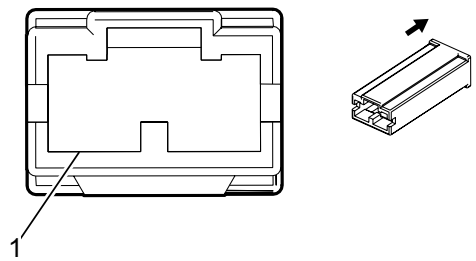
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E18 Rear Defogger Grid X1 (C49)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	NA01	Rear Defogger Relay Supply Voltage	-	-

E18 Rear Defogger Grid X2 (C49)



Connector Part Information

Harness Type: Rear Defogger

OEM Connector: P01FB-A

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F 250 Series (BK)

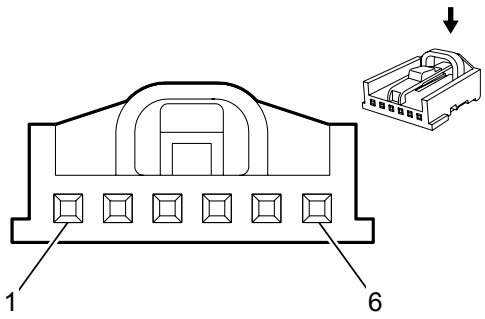
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E18 Rear Defogger Grid X2 (C49)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	NAE1	Ground	-	-

E37F Dome/Reading Lamps - Front



Connector Part Information

Harness Type: Body

OEM Connector: GAA06FW

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 0.635 Series (WH)

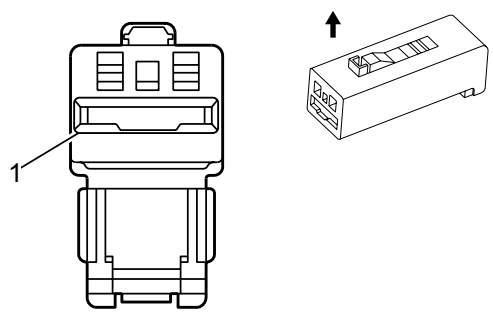
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E37F Dome/Reading Lamps - Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	-	D-BU	LG03	Interior Lamp Wake Up Signal	-	-
3	-	BK	LGE1	Ground	-	-
4	-	BN	LG04	Interior Lamp Output Signal	-	-
5-6	-	-	-	Not Occupied	-	-

E37M Dome/Reading Lamps - Middle X1



Connector Part Information

Harness Type: Body

OEM Connector: P01FB-A

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F 250 Series (BK)

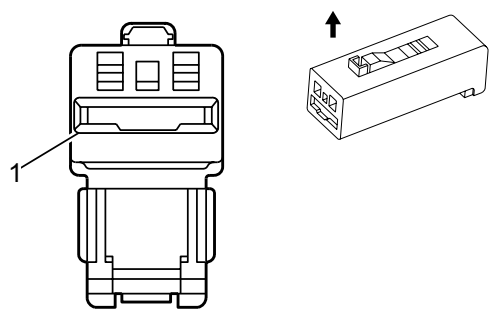
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E37M Dome/Reading Lamps - Middle X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	LI03	Interior Lamp Wake Up Signal	-	-

E37M Dome/Reading Lamps - Middle X2



Connector Part Information

Harness Type: Body

OEM Connector: P01FB-A

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F 250 Series (BK)

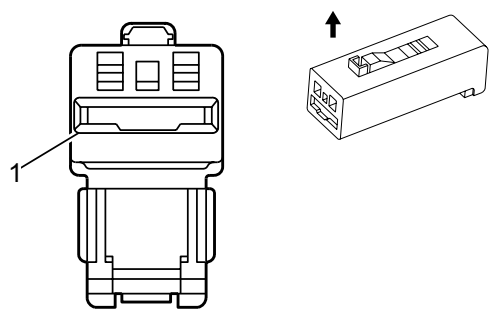
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E37M Dome/Reading Lamps - Middle X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BN	LI02	Interior Lamp Output Signal	-	-

E37R Dome/Reading Lamps - Rear X1



Connector Part Information

Harness Type: Body

OEM Connector: P01FB-A

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F 250 Series (BK)

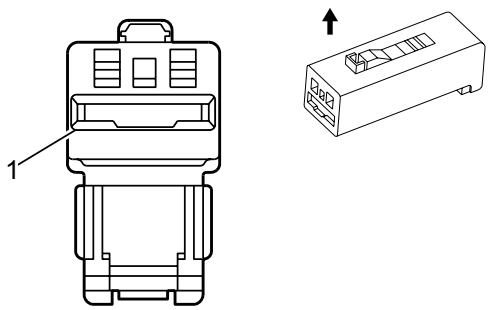
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E37R Dome/Reading Lamps - Rear X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	LG01	Interior Lamp Wake Up Signal	-	-

E37R Dome/Reading Lamps - Rear X2



Connector Part Information

Harness Type: Body

OEM Connector: P01FB-A

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F 250 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E37R Dome/Reading Lamps - Rear X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BN	LG02	Interior Lamp Output Signal	-	-

F101 Passenger Instrument Panel Air Bag X1

-

Connector Part Information

Harness Type: Instrument Panel Air Bag Jumper

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F101 Passenger Instrument Panel Air Bag X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	FB23	Passenger IP Module Stage 1 High Control	-	-
2	-	RD	FB24	Passenger IP Module Stage 1 Low Control	-	-

F101 Passenger Instrument Panel Air Bag X2

–

Connector Part Information

Harness Type: Instrument Panel Air Bag Jumper

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F (OG)

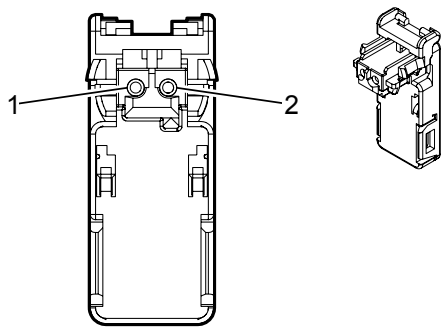
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F101 Passenger Instrument Panel Air Bag X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	FB25	Passenger IP Module Stage 2 High Control	-	-
2	-	YE	FB26	Passenger IP Module Stage 2 Low Control	-	-

F105L Roof Rail Air Bag - Left



Connector Part Information

Harness Type: Body

OEM Connector: ACA02FOR

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 11DIA Squib (OG)

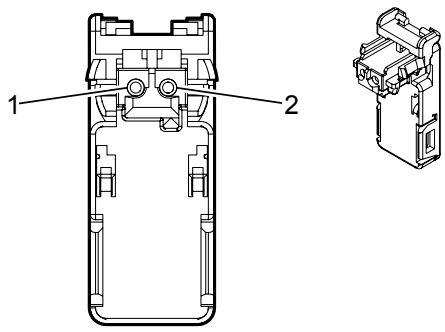
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F105L Roof Rail Air Bag - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	FB39	Left Front Head Curtain Module High Control	-	-
2	-	YE/RD	FB40	Left Front Head Curtain Module Low Control	-	-

F105R Roof Rail Air Bag - Right



Connector Part Information

Harness Type: Body

OEM Connector: ACA02FY-2V

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 11DIA Squib (YE)

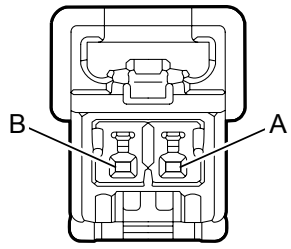
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F105R Roof Rail Air Bag - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	FB37	Right Front Head Curtain Module High Control	-	-
2	-	OG	FB38	Right Front Head Curtain Module Low Control	-	-

F106D Seat Air Bag - Driver



Connector Part Information

Harness Type: Body

OEM Connector: TK02FY-EX-1V

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 040 Series (YE)

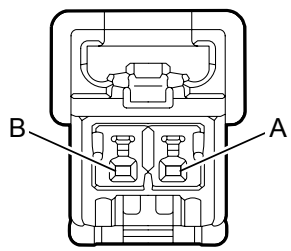
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F106D Seat Air Bag - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	GY	FB31	Driver Side Impact Module High Control	-	-
B	-	D-BU	FB32	Driver Side Impact Module Low Control	-	-

F106P Seat Air Bag - Passenger



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: TH02FY-EX-1V

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 040 Series (YE)

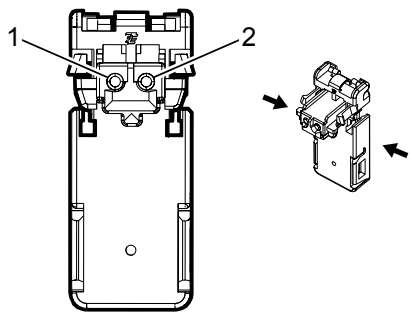
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F106P Seat Air Bag - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	YE/BK	FB29	Passenger Side Impact Module High Control	-	-
B	-	YE	FB30	Passenger Side Impact Module Low Control	-	-

F107 Steering Wheel Air Bag X1



Connector Part Information

Harness Type: Steering Wheel Air Bag Coil

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F (YE)

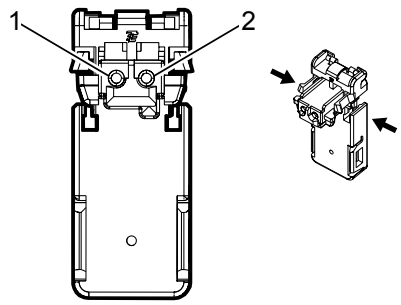
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F107 Steering Wheel Air Bag X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	FB19	Steering Wheel Module Stage 1 High Control	-	-
2	-	WH	FB21	Steering Wheel Module - Low Control	-	-

F107 Steering Wheel Air Bag X2



Connector Part Information

Harness Type: Steering Wheel Air Bag Coil

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F (OG)

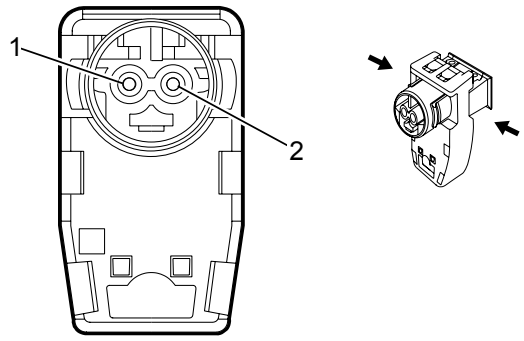
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F107 Steering Wheel Air Bag X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	FB22	Steering Wheel Module Stage 2 High Control	-	-
2	-	D-GN	FB21	Steering Wheel Module - Low Control	-	-

F112D Seat Belt Retractor Pretensioner - Driver



Connector Part Information

Harness Type: Body

OEM Connector: ACB02FY

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F (YE)

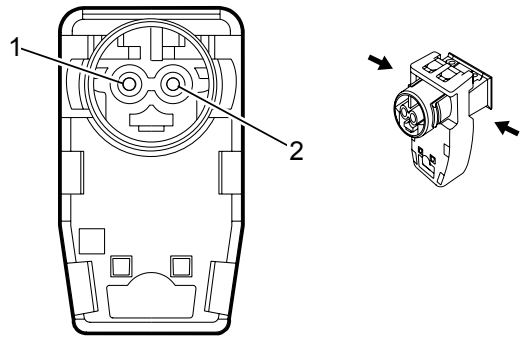
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F112D Seat Belt Retractor Pretensioner - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PK/BK	FA03	Driver Seat Belt Retractor Pretensioner High Control	-	-
2	-	VT	FA04	Driver Seat Belt Retractor Pretensioner Low Control	-	-

F112P Seat Belt Retractor Pretensioner - Passenger



Connector Part Information

Harness Type: Body

OEM Connector: ACB02FY

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F (YE)

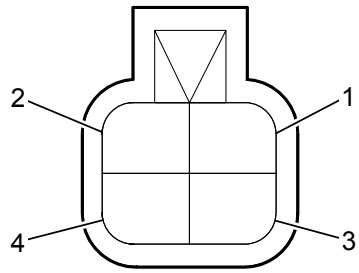
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F112P Seat Belt Retractor Pretensioner - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	FA01	Passenger Seat Belt Retractor Pretensioner High Control	-	-
2	-	D-GN	FA02	Passenger Seat Belt Retractor Pretensioner Low Control	-	-

G10L Cooling Fan Motor - Left



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: RS04FGY-PR-H-SW

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F (GY)

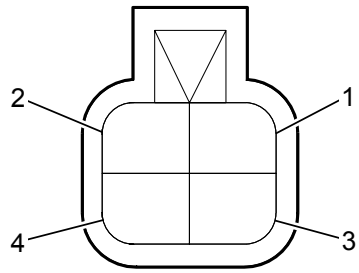
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

G10L Cooling Fan Motor - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-GN	AR10	Left Cooling Fan Motor High/Low Speed Control	-	-
2	-	WH	AR01	Left Medium Speed Cooling Fan Relay Supply Voltage	-	-
3	-	BK	ARE1	Ground	-	-
4	-	BK	ARE2	Ground	-	-

G10R Cooling Fan Motor - Right



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: RS04FGY-PR-H-SW

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F (GY)

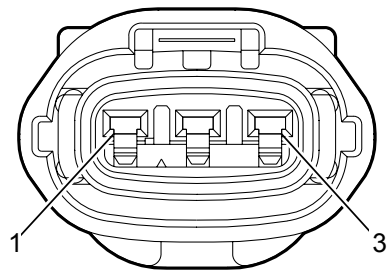
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

G10R Cooling Fan Motor - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	AR08	Battery Positive Voltage	-	-
2	-	RD	AR08	Battery Positive Voltage	-	-
3	-	GY	AR07	Right Cooling Fan Motor Medium Speed Control	-	-
4	-	PK	AR02	Right Cooling Fan Motor High/Low Speed Control	-	-

G13 Generator X1



Connector Part Information

Harness Type: Engine

OEM Connector: HS03FB

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 090 II Series, Sealed (BK)

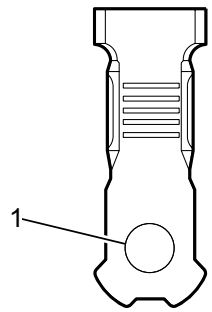
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

G13 Generator X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-GN	MA10	Charge Indicator Control	-	-
2	-	BN	DA23	Battery Positive Voltage	-	-
3	-	GY	DA24	Power Generation Command Signal	-	-

G13 Generator X2



Connector Part Information

Harness Type: Engine

OEM Connector: 24340_65F42

Service Connector: Service by Harness - See Part Catalog

Description: Ring Terminal

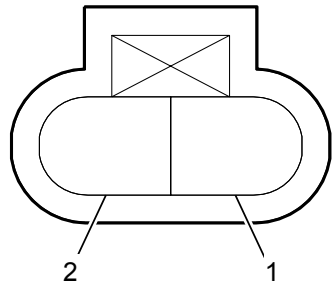
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

G13 Generator X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BN/RD	DA01	Battery Positive Voltage	-	-

G24 Windshield Washer Pump



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: HS02FB-4V

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F (BK)

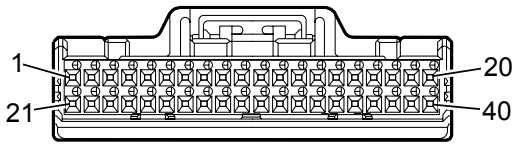
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

G24 Windshield Washer Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	WA12	Windshield Washer Pump Control	-	-
2	-	D-GN	WA11	Run/Crank Ignition Voltage	-	-

K9 Body Control Module X1



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH40FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 40-Way F 025 Series (NA)

Terminal Part Information

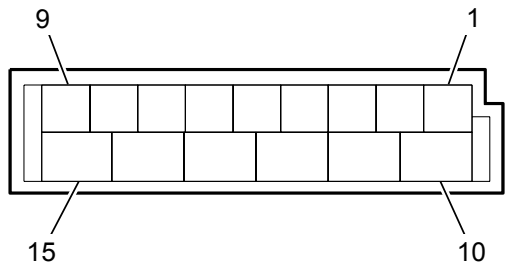
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K9 Body Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PU	PD34	Remote Function Actuator Receive Signal	-	ATG
2	-	BN	PD33	Remote Function Actuator Supply Voltage	-	ATG
3	-	BK	PD35	Remote Function Actuator Return	-	ATG
4	-	-	-	Not Occupied	-	-
5	-	L-BU	RA40	Multi Remote Entry Signal	-	CWM
6-7	-	-	-	Not Occupied	-	-
8	-	PU	PD12	Driver Door Lock Switch Unlock Signal	-	-
9	-	RD	PD11	Driver Door Lock Switch Lock Signal	-	-
10	-	D-BU	DA20	Accessory/Run Ignition Voltage	-	-
11	-	D-GN/RD	NA03	Rear Defog Switch Signal	-	-
12	-	RD	PD38	Stop Lamp Supply Voltage	-	-
13	-	PK	PD17	Door Lock Key Switch Lock Signal	-	-
14	-	BK	PD28	Door Lock Key Switch Unlock Signal	-	-
15	-	PU	PD06	Turn Signal/Multifunction Switch Input Signal (1)	-	-
16	-	D-GN	PD07	Turn Signal/Multifunction Switch Input Signal (2)	-	-

17	-	PK	PD08	Turn Signal/Multifunction Switch Input Signal (3)	-	-
18	-	D-BU	PD09	Turn Signal/Multifunction Switch Input Signal (4)	-	-
19	-	BN	PD10	Turn Signal/Multifunction Switch Input Signal (5)	-	
20	-	-	-	Not Occupied	-	-
21	-	PK	IA02	CAN Bus High Serial Data (-)	-	-
22	-	D-BU	IA01	CAN Bus High Serial Data (+)	-	-
23	-	OG	DA19	Run/Crank Ignition Voltage	-	-
24	-	WH	PD31	Key In Ignition Switch Signal	-	-
25	-	OG	PD01	Turn Signal/Multifunction Switch Output Signal (1)	-	-
26	-	RD	PD02	Turn Signal/Multifunction Switch Output Signal (2)	-	-
27	-	WH	PD03	Turn Signal/Multifunction Switch Output Signal (3)	-	-
28	-	YE	PD04	Turn Signal/Multifunction Switch Output Signal (4)	-	-
29	-	BN	PD05	Turn Signal/Multifunction Switch Output Signal (5)	-	-
30-31	-	-	-	Not Occupied	-	-
32	-	D-BU	LD01	Hazard Switch Signal	-	-
33	-	BN	HA07	Blower Motor On/Off Switch Signal	-	-
34	-	YE	HA20	A/C Request Switch Signal	-	-
35	-	PK	HA12	EVAP Core Temperature Sensor Signal	-	-
36	-	L-GN	PF03	Immobilizer Transmit	-	-
37	-	GY	PF25	Linear Interconnect Network Bus	-	-
38	-	RD	PF04	Security Indicator Control	-	-
39	-	-	-	Not Occupied	-	-
40	-	PK	PF02	Immobilizer Receive	-	-

K9 Body Control Module X2



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: FEA09FW-FHA6–SA

Service Connector: Service by Harness - See Part Catalog

Description: 15-Way F (WH)

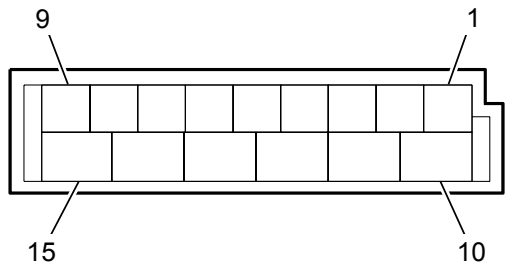
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K9 Body Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-GN	PD19	Driver Door Lock Motor Unlock Control	-	-
2	-	YE	DA35	Battery Positive Voltage	-	-
3	-	D-BU	LG01	Interior Lamp Wake Up Signal	-	-
4	-	-	-	Not Occupied	-	-
5	-	BN	LG02	Interior Lamp Output Signal	-	-
6-7	-	-	-	Not Occupied	-	-
8	-	L-BU	HA11	A/C Request Indicator Signal	-	-
9	-	-	-	Not Occupied	-	-
10	-	YE	DA09	Battery Positive Voltage	-	-
11	-	PK	PA01	Power Window Supply Voltage	-	-
12	-	D-BU	PA02	Power Window Ignition Output	-	-
13	-	YE	PD21	Passenger Door Lock Motor Unlock Control	-	-
14	-	D-BU	PD18	Door Lock Motor Lock Control	-	-
15	-	BK	PDE1	Ground	-	-

K9 Body Control Module X3



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: FEA09FB-FHA6–SA

Service Connector: Service by Harness - See Part Catalog

Description: 15-Way F (BK)

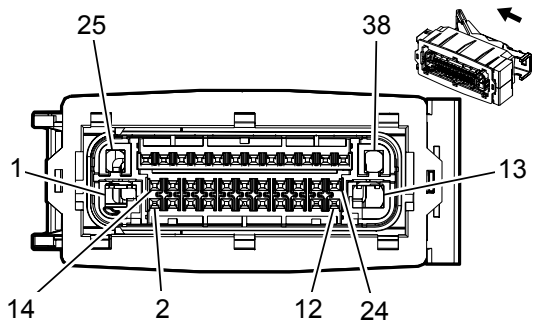
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K9 Body Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	-	L-GN	PD15	Right Sliding Door Ajar Switch Signal	-	-
3	-	GY	PD16	Left Sliding Door Ajar Switch Signal	-	-
4	-	BN	PD13	Driver Door Ajar Switch Signal	-	-
5	-	L-BU	PD14	Passenger Door Ajar Switch Signal	-	-
6	-	-	-	Not Occupied	-	-
7	-	WH	PD40	Rear Cargo Door Ajar Switch Signal	-	-
8	-	WH	LD09	Right Turn Signal Lamp Supply Voltage	-	-
9	-	PU	LD10	Left Turn Signal Lamp Supply Voltage	-	-
10-15	-	-	-	Not Occupied	-	-

K17 Electronic Brake Control Module



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: BEZ34FB-BHY2–BJZ2–LH

Service Connector: Service by Harness - See Part Catalog

Description: 38-Way F 0.64, 2.8, 5.8 Series, Sealed (BK)

Terminal Part Information

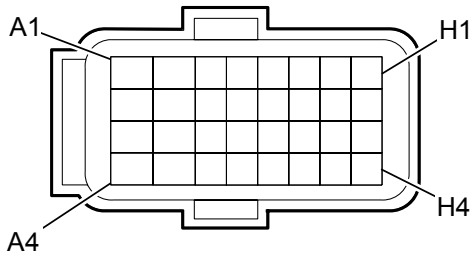
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K17 Electronic Brake Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	BS01	Battery Positive Voltage	-	-
2-4	-	-	-	Not Occupied	-	-
5	-	D-GN	BS41	Traction Control Off Switch Signal	-	-
6	-	RD	BS24	Wheel Speed Sensor Signal Right Front	-	-
7-12	-	-	-	Not Occupied	-	-
13	-	BK	BSE1	Ground	-	-
14	-	PK	BS22	CAN Bus High Serial Data (-)	-	-
15-16	-	-	-	Not Occupied	-	-
17	-	L-BU	BS10	K-Line Diagnostic Serial Data	-	-
18	-	D-GN	BS25	Wheel Speed Sensor Low Reference Right Front	-	-
19	-	PU	BS29	Wheel Speed Sensor Signal Right Rear	-	-
20	-	WH	BS30	Wheel Speed Sensor Low Reference Left Rear	-	-
21	-	-	-	Not Occupied	-	-
22	-	YE	BS26	Wheel Speed Sensor Signal Left Front	-	-
23	-	-	-	Not Occupied	-	-

24	-	WH	BS47	CAN Bus High Serial Data (+)	-	-
25	-	WH	BS02	Battery Positive Voltage	-	-
26	-	D-BU	BS21	CAN Bus High Serial Data (+)	-	-
27-29	-	-	-	Not Occupied	-	-
30	-	RD	BS32	Stop Lamp Supply Voltage	-	-
31	-	D-BU	BS28	Wheel Speed Sensor Low Reference Right Rear	-	-
32	-	VT	BS03	Ignition Main Relay Supply Voltage	-	-
33	-	RD	BS31	Wheel Speed Sensor Signal Left Rear	-	-
34	-	BN	BS27	Wheel Speed Sensor Low Reference Left Front	-	-
35-36	-	-	-	Not Occupied	-	-
37	-	PK	BS45	CAN Bus High Serial Data (-)	-	-
38	-	BK	BSE2	Ground	-	-

K20 Engine Control Module X1



Connector Part Information

Harness Type: Engine

OEM Connector: RH24FGY-RZ8–R-RH

Service Connector: Service by Harness - See Part Catalog

Description: 32-Way F, Sealed (GY)

Terminal Part Information

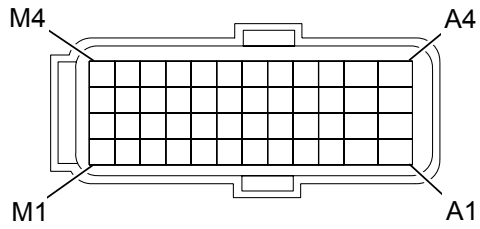
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K20 Engine Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	-	PK	AC04	Engine Controls Ignition Relay Control	-	-
A2	-	D-BU	AC12	Fuel Injector Control (1)	-	-
A3	-	RD	AC13	Fuel Injector Control (2)	-	-
A4	-	YE	AC14	Fuel Injector Control (3)	-	-
B1-B2	-	-	-	Not Occupied	-	-
B3	-	OG	AB41	EVAP Canister Vent Solenoid Control	-	-
B4	-	PU	AC15	Fuel Injector Control (4)	-	-
C1	-	-	-	Not Occupied	-	-
C2	-	D-BU	AC21	Fuel Pump Relay Control	-	-
C3	-	L-BU	AC57	Ignition Control (3)	-	-
C4	-	D-GN	AC58	Ignition Control (4)	-	-
D1-D2	-	-	-	Not Occupied	-	-
D3	-	L-BU	AC56	Ignition Control (2)	-	-
D4	-	RD	AC55	Ignition Control (1)	-	-
E1	-	-	-	Not Occupied	-	-

E2	-	YE	AC23	Throttle Body Relay Supply Voltage	-	-
E3-F3	-	-	-	Not Occupied	-	-
F4	-	PK	AC67	EVAP Canister Purge Solenoid Control	-	-
G1-G3	-	-	-	Not Occupied	-	-
G4	-	D-GN	AC87	Ignition Main Relay Supply Voltage	-	-
H1	-	PK	AC74	Throttle Actuator Control Close	-	-
H2	-	D-GN	AC28	Heated Oxygen Sensor Low Signal Bank 1 Sensor (1)	-	-
H3	-	L-BU	AC24	Throttle Body Relay Control	-	-
H4	-	D-BU	AC75	Throttle Actuator Control Open	-	-

K20 Engine Control Module X2



Connector Part Information

Harness Type: Engine

OEM Connector: RH40FBR-RZ8–L-RH

Service Connector: Service by Harness - See Part Catalog

Description: 48-Way F, Sealed (BN)

Terminal Part Information

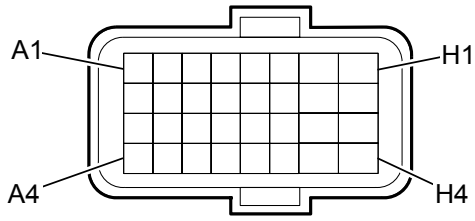
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K20 Engine Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	-	D-BU	AC77	Throttle Position Sensor Signal (1)	-	-
A2	-	BN	AC79	Throttle Position Sensor Signal (2)	-	-
A3	-	-	-	Not Occupied	-	-
A4	-	YE	AC76	Throttle Position Sensor Low Reference	-	-
B1	-	WH	AA60	Knock Sensor Signal	-	-
B2	-	PK	AC39	Engine Coolant Temperature Sensor Signal	-	-
B3	-	-	-	Not Occupied	-	-
B4	-	BARE	ABE5	Knock Sensor Low Reference	-	-
C1	-	-	-	Not Occupied	-	-
C2	-	D-BU	AB43	Fuel Temperature Signal	-	-
C3	-	L-GN	AC81	Fuel Tank Pressure Sensor Signal	-	-
C4	-	BK	AC41	Coolant Temperature Sensor Low Reference	-	-
D1	-	D-GN	AC34	Mass Air Flow Sensor Signal	-	-
D2	-	PU	AC72	Intake Air Temperature Sensor Low Reference	-	-
D3	-	WH	AA50	Oil Pressure Sensor Low Reference	-	-

D4	-	-	-	Not Occupied	-	-
E1	-	D-BU	AC27	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor (1)	-	-
E2	-	WH	AC86	Heated Oxygen Sensor High Signal Bank 1 Sensor (2)	-	-
E3	-	-	-	Not Occupied	-	-
E4	-	L-GN	AC40	Mass Air Flow Sensor Low Reference	-	-
F1	-	PK	AC30	Heated Oxygen Sensor High Signal Bank 1 Sensor (1)	-	-
F2	-	OG	AB32	Oil Temperature Sensor Low Reference	-	-
F3	-	L-GN	AC47	Intake Air Temperature Sensor Signal	-	-
F4	-	-	-	Not Occupied	-	-
G1	-	YE	AB31	Oil Temperature Sensor Signal	-	-
G2	-	D-GN	AI02	Current Sensor Signal	-	-
G3	-	D-BU	AC89	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor (2)	-	-
G4	-	D-GN	AA51	Oil Pressure Sensor Signal	-	-
H1	-	WH	AC35	Crankshaft Position Sensor Signal	-	-
H2	-	RD	AC36	Crankshaft Position Sensor Low Reference	-	-
H3	-	BK	AC38	Camshaft Position Sensor Low Reference	-	-
H4	-	-	-	Not Occupied	-	-
J1	-	RD	AC37	Camshaft Position Sensor Signal	-	-
J2-J3	-	-	-	Not Occupied	-	-
J4	-	BN	AC80	Sensor 5 Volt Reference	-	-
K1	-	L-GN	AC95	Transmission Park/Neutral Signal	-	-
K2	-	-	-	Not Occupied	-	-
K3	-	BK	AC82	Sensor Low Reference	-	-
K4	-	VT	AC78	Throttle Position Sensor 5 Volt Reference	-	-
L1	-	PK	AC49	Camshaft Phaser Intake Solenoid Control	-	-
L2	-	RD	AA49	Oil Pressure Sensor 5 Volt Reference	-	-
L3	-	BK	AC45	Crankshaft Position Sensor 5 Volt Reference	-	-
L4-M1	-	-	-	Not Occupied	-	-
M2	-	D-BU	AC44	Camshaft Position Sensor 5 Volt Reference	-	-
M3-M4	-	-	-	Not Occupied	-	-

K20 Engine Control Module X3



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: RH24FB-RZ8-L-RH

Service Connector: Service by Harness - See Part Catalog

Description: 32-Way F, Sealed (BK)

Terminal Part Information

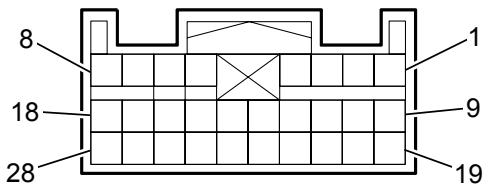
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K20 Engine Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	-	RD	AC01	Battery Positive Voltage	-	-
A2	-	-	-	Not Occupied	-	-
A3	-	PK	IA02	CAN Bus High Serial Data (-)	-	-
A4	-	D-BU	IA01	CAN Bus High Serial Data (+)	-	-
B1	-	L-BU	HA31	A/C Refrigerant Pressure Sensor Signal	-	-
B2-B3	-	-	-	Not Occupied	-	-
B4	-	L-BU	AC69	K-Line Diagnostic Serial Data	-	-
C1-C4	-	-	-	Not Occupied	-	-
D1	-	L-BU	AC10	Ignition Main Relay Supply Voltage	-	-
D2	-	PK	CA03	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	-	-
D3	-	BK	CAE1	Ground	-	-
D4-E1	-	-	-	Not Occupied	-	-
E2	-	GY	HA32	A/C Refrigerant Pressure Sensor Low Reference	-	-
E3	-	RD	AC90	Stop Lamp Supply Voltage	-	-
E4	-	L-BU	CA02	Brake Pedal Apply Signal	-	K34

F1	-	WH	HA33	A/C Refrigerant Pressure Sensor 5 Volt Reference	-	-
F2	-	BN	AC64	Accelerator Pedal Position Low Reference (2)	-	-
F3	-	WH	AC63	Accelerator Pedal Position Signal (2)	-	-
F4	-	RD	AC65	Accelerator Pedal Position 5 Volt Reference (2)	-	-
G1	-	D-GN	AC02	Engine Controls Ignition Relay Supply Voltage	-	-
G2	-	PU	AC61	Accelerator Pedal Position Low Reference (1)	-	-
G3	-	-	-	Not Occupied	-	-
G4	-	BK	AE01	Ground	-	-
H1	-	BK	AE04	Ground	-	-
H2	-	L-BU	AC60	Accelerator Pedal Position Signal (1)	-	-
H3	-	GY	AC62	Accelerator Pedal Position 5 Volt Reference (1)	-	-
H4	-	BK	AE05	Ground	-	-

K36 Inflatable Restraint Sensing and Diagnostic Module X1



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: NH28FY-EX

Service Connector: Service by Harness - See Part Catalog

Description: 28-Way F (YE)

Terminal Part Information

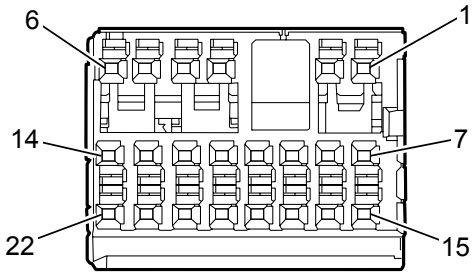
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K36 Inflatable Restraint Sensing and Diagnostic Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	FB19	Steering Wheel Module Stage 1 High Control	-	-
2	-	YE/RD	FB21	Steering Wheel Module - Low Control	-	-
3	-	YE/GN	FB22	Steering Wheel Module Stage 2 High Control	-	-
4	-	BK	FBE1	Ground	-	-
5	-	YE/BU	FB23	Passenger IP Module Stage 1 High Control	-	-
6	-	YE/BK	FB24	Passenger IP Module Stage 1 Low Control	-	-
7	-	YE	FB26	Passenger IP Module Stage 2 Low Control	-	-
8	-	BK/YE	FB25	Passenger IP Module Stage 2 High Control	-	-
9	-	-	-	Not Occupied	-	-
10	-	BK	FE01	Ground	-	-
11	-	YE	FB27	Passenger Seat Belt Indicator	-	-
12-13	-	-	-	Not Occupied	-	-
14	-	YE/BU	FB28	SIR Indicator Control	-	-
15	-	RD	FB54	Left Front Side Impact Sensing Module Signal	-	-
16	-	-	-	Not Occupied	-	-

17	-	GN	FB52	Right Front Side Impact Sensing Module Low Reference	-	-
18	-	BK	FB05	Middle Front Impact Sensing Module Low Reference	-	-
19	-	D-GN	FB01	Run/Crank Ignition Voltage	-	-
20	-	-	-	Not Occupied	-	-
21	-	-	RT24	Not Used	-	-
22	-	RD	FB03	Passenger Air Bag Off Indicator Control	-	-
23	-	D-BU	FB10	CAN Bus High Serial Data (+)	-	-
24	-	PK	FB20	CAN Bus High Serial Data (-)	-	-
25	-	RD	FB53	Left Front Side Impact Sensing Module Low Reference	-	-
26	-	-	-	Not Occupied	-	-
27	-	RD	FB51	Right Front Side Impact Sensing Module Signal	-	-
28	-	WH	FB04	Middle Front Impact Sensing Module Signal	-	-

K36 Inflatable Restraint Sensing and Diagnostic Module X2



Connector Part Information

Harness Type: Body

OEM Connector: NH22FY-2V-EX

Service Connector: Service by Harness - See Part Catalog

Description: 22-Way F 025 Series (YE)

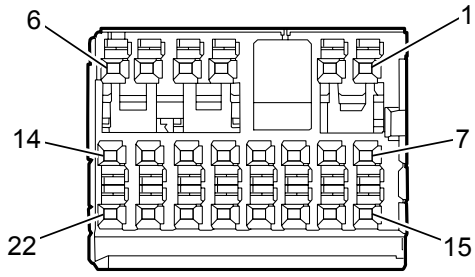
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K36 Inflatable Restraint Sensing and Diagnostic Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	-	GY	FB31	Driver Side Impact Module High Control	-	-
4	-	D-BU	FB32	Driver Side Impact Module Low Control	-	-
5	-	YE/RD	FB40	Left Front Head Curtain Module Low Control	-	-
6	-	YE	FB39	Left Front Head Curtain Module High Control	-	-
7-14	-	-	-	Not Occupied	-	-
15	-	PK/BK	FA03	Driver Seat Belt Retractor Pretensioner High Control	-	-
16	-	PU	FA04	Driver Seat Belt Retractor Pretensioner Low Control	-	-
17	-	OG	FB06	Driver Seat Belt Switch Signal	-	-
18	-	D-BU	FB43	Left Middle Side Impact Sensing Low Reference	-	-
19	-	PK/BU	FB42	Left Middle Side Impact Sensing Module Signal	-	-
20	-	BK	FEE9	Ground	-	-
21-22	-	-	-	Not Occupied	-	-

K36 Inflatable Restraint Sensing and Diagnostic Module X3



Connector Part Information

Harness Type: Body

OEM Connector: NH22FY-1V-EX

Service Connector: Service by Harness - See Part Catalog

Description: 22-Way F 025 Series (YE)

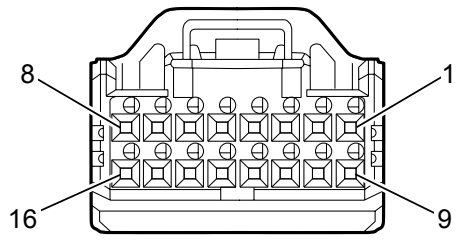
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K36 Inflatable Restraint Sensing and Diagnostic Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	FB37	Right Front Head Curtain Module High Control	-	-
2	-	OG	FB38	Right Front Head Curtain Module Low Control	-	-
3	-	D-GN	FB29	Passenger Side Impact Module High Control	-	-
	-	WH	FB30	Passenger Side Impact Module Low Control	-	-
5-8	-	-	-	Not Occupied	-	-
9	-	D-BU	FB02	Occupant Sensor Serial Data	-	-
10-16	-	-	-	Not Occupied	-	-
17	-	BARE	FEE8	Ground	-	-
18	-	WH	FB50	Right Middle Side Impact Sensing Module Signal	-	-
19	-	RD	FB41	Right Middle Side Impact Sensing Module Low Reference	-	-
20	-	GY	FB07	Passenger Seat Belt Switch Signal	-	-
21	-	L-GN	FA02	Passenger Seat Belt Retractor Pretensioner Low Control	-	-
22	-	YE	FA01	Passenger Seat Belt Retractor Pretensioner High Control	-	-

K41R Rear Parking Assist Control Module (UD7)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH16FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 16-Way F 025 Series (NA)

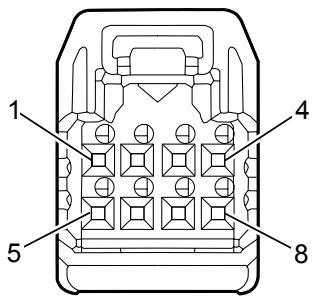
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K41R Rear Parking Assist Control Module (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-GN/RD	FD01	Run/Crank Ignition Voltage	-	-
2	-	D-BU	FD04	Park Assist Alarm Signal	-	-
3	-	BK	FDE1	Ground	-	-
4	-	D-GN/WH	FD03	Backup Lamp Supply Voltage Signal	-	-
5	-	L-GN	FD07	Rear Park Assist LED Disable Signal	-	-
6	-	RD	FD05	Park Assist Alarm Low Reference	-	-
7-8	-	-	-	Not Occupied	-	-
9	-	L-GN/BK	FD08	Object Sensor Supply Voltage	-	-
10	-	YE	FD09	Object Sensor Low Reference	-	-
11	-	-	-	Not Occupied	-	-
12	-	PK	FD06	Rear Park Assist On/Off Switch Signal	-	-
13	-	L-GN	FD16	Right Rear Middle Object Sensor Signal	-	-
14	-	OG	FD13	Left Rear Middle Object Sensor Signal	-	-
15	-	PK	FD10	Left Rear Corner Object Sensor Signal	-	-
16	-	GY	FD19	Right Rear Corner Object Sensor Signal	-	-

K43 Power Steering Control Module X1



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH08FB-NH

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 025 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K43 Power Steering Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PK	PS11	CAN Bus High Serial Data (-)	-	-
2	-	D-BU	PS10	CAN Bus High Serial Data (+)	-	-
3	-	-	-	Not Occupied	-	-
4	-	WH	PS02	Run/Crank Ignition Voltage	-	-
5-8	-	-	-	Not Occupied	-	-

K43 Power Steering Control Module X2

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Connector Part Information

Harness Type: Power Steering Torque Sensor Pigtail

OEM Connector: Not Available

Service Connector: Service by Component Assembly - See Part Catalog

Description: 8-Way F (GY)

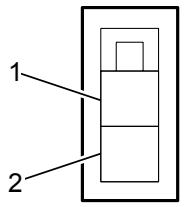
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K43 Power Steering Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-4	-	-	-	Not Occupied	-	-
5	-	RD	-	Steering Torque Sensor Supply Voltage	-	-
6	-	YE	-	Steering Torque Sensor Signal (2)	-	-
7	-	BK	-	Ground	-	-
8	-	WH	-	Steering Torque Sensor Signal (1)	-	-

K43 Power Steering Control Module X3



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: L02FB-MC

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 375 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K43 Power Steering Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	PS01	Battery Positive Voltage	-	-
2	-	BK	PSE1	Ground	-	-

K43 Power Steering Control Module X4

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Connector Part Information

Harness Type: Power Steering Control Motor Pigtail

OEM Connector: Not Available

Service Connector: Service by Component Assembly - See Part Catalog

Description: 2-Way F (BU)

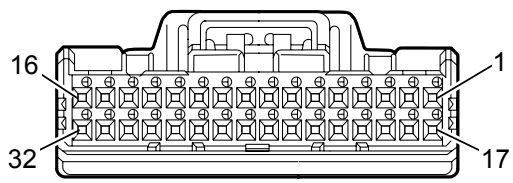
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K43 Power Steering Control Module X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	-	Power Steering Control Motor Left Turn Control	-	-
2	-	BK	-	Power Steering Control Motor Right Turn Control	-	-

K65 Tire Pressure Indicator Module



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH32FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 32-Way F 1.6 Series (NA)

Terminal Part Information

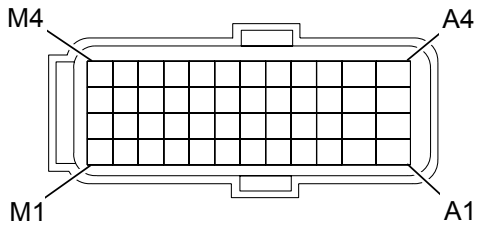
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K65 Tire Pressure Indicator Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PK	MP20	CAN Bus High Serial Data (-)	-	-
2	-	D-BU	MP10	CAN Bus High Serial Data (+)	-	-
3	-	D-GN	MP11	Right Rear Tire Pressure Receiver Serial Data	-	-
4	-	D-BU	MP15	Left Rear Tire Pressure Receiver Serial Data	-	-
5	-	BN	MP06	Right Front Tire Pressure Receiver Serial Data	-	-
6	-	WH	MP02	Left Front Tire Pressure Receiver Serial Data	-	-
7	-	L-BU	MP13	Right Rear Tire Pressure Receiver Supply Voltage	-	-
8	-	GY	MP17	Left Rear Tire Pressure Receiver Supply Voltage	-	-
9	-	VT	MP08	Right Front Tire Pressure Receiver Supply Voltage	-	-
10	-	L-GN	MP04	Left Front Tire Pressure Receiver Supply Voltage	-	-
11-14	-	-	-	Not Occupied	-	-
15	-	OG	MP01	Run/Crank Ignition Voltage	-	-
16-18	-	-	-	Not Occupied	-	-
19	-	D-BU	MP12	Right Rear Tire Pressure Receiver Signal	-	-
20	-	PK	MP16	Left Rear Tire Pressure Receiver Signal	-	-

21	-	D-GN	MP07	Right Front Tire Pressure Receiver Signal	-	-
22	-	RD	MP03	Left Front Tire Pressure Receiver Signal	-	-
23	-	L-GN	MP14	Right Rear Tire Pressure Receiver Low Reference	-	-
24	-	VT	MP18	Left Rear Tire Pressure Receiver Low Reference	-	-
25	-	GY	MP09	Right Front Tire Pressure Receiver Low Reference	-	-
26	-	BN	MP05	Left Front Tire Pressure Receiver Low Reference	-	-
27-29	-	-	-	Not Occupied	-	-
30	-	D-BU	MP19	Hazard Switch Signal	-	-
31	-	-	-	Not Occupied	-	-
32	-	BK	MPE1	Ground	-	-

K71 Transmission Control Module



Connector Part Information

Harness Type: Engine

OEM Connector: RH40FB-RZ8-L-LH

Service Connector: Service by Harness - See Part Catalog

Description: 48-Way F, Sealed (BK)

Terminal Part Information

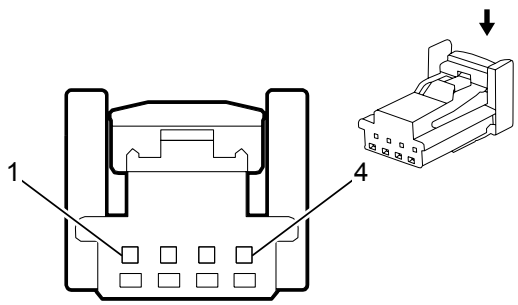
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K71 Transmission Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1-A2	-	-	-	Not Occupied	-	-
A3	-	OG	BA40	Sensor Low Reference	-	-
A4-B2	-	-	-	Not Occupied	-	-
B3	-	BN	BA47	Transmission Temperature Sensor Signal	-	-
B4	-	VT	BA33	Park/Neutral Position Switch Range Signal (L)	-	-
C1	-	D-BU	BA80	CAN Bus High Serial Data (+)	-	-
C2	-	PK	BA81	CAN Bus High Serial Data (-)	-	-
C3-C4	-	-	-	Not Occupied	-	-
D1	-	RD	BA31	Transmission Output Speed Sensor Signal	-	-
D2	-	L-BU	BA54	Transmission Turbine Speed Sensor Signal	-	-
D3	-	-	-	Not Occupied	-	-
D4	-	WH	BA36	Park/Neutral Position Switch Range Signal (D)	-	-
E1	-	OG	BA29	Transmission Input Speed Sensor Signal	-	-
E2-E3	-	-	-	Not Occupied	-	-
E4	-	YE	BA35	Park/Neutral Position Switch Range Signal (N)	-	-

F1	-	-	-	Not Occupied	-	-
F2	-	WH	BA46	Transmission Fluid Pressure Sensor 5 Volt Reference	-	-
F3	-	PK	BA37	Transmission Fluid Pressure Sensor Signal (1)	-	-
F4	-	D-GN	BA34	Park/Neutral Position Switch Range Signal (R)	-	-
G1	-	D-BU	BA04	Torque Converter Clutch Pressure Control Solenoid Control	-	-
G2	-	-	-	Not Occupied	-	-
G3	-	GY	BA38	Transmission Fluid Pressure Sensor Signal (2)	-	-
G4	-	PK	BA27	Park/Neutral Position Switch Range Signal (P)	-	-
H1	-	RD	BA11	Torque Converter Clutch Enable Solenoid Control	-	-
H2-H4	-	-	-	Not Occupied	-	-
J1	-	D-GN	BA03	Transmission Pressure Control Solenoid 2 Control	-	-
J2-J4	-	-	-	Not Occupied	-	-
K1	-	WH	BA02	Transmission Pressure Control Solenoid 1 Control	-	-
K2	-	YE	BA01	Transmission Mainline Pressure Solenoid Control	-	-
K3-K4	-	-	-	Not Occupied	-	-
L1	-	L-GN	BA19	Ignition Main Relay Supply Voltage	-	-
L2	-	D-BU	DA53	Battery Positive Voltage	-	-
L3	-	-	-	Not Occupied	-	-
L4	-	BK	BAE1	Ground	-	-
M1	-	L-GN	BA18	Ignition Main Relay Supply Voltage	-	-
M2	-	D-BU	DA51	Battery Positive Voltage	-	-
M3	-	-	-	Not Occupied	-	-
M4	-	BK	BAE2	Ground	-	-

K77 Remote Control Door Lock Receiver



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH04FW

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 025 Series (NA)

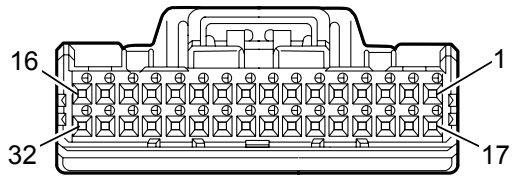
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K77 Remote Control Door Lock Receiver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BN	PD33	Remote Function Actuator Supply Voltage	-	-
2	-	-	-	Not Occupied	-	-
3	-	PU	PD34	Remote Function Actuator Receive Signal	-	-
4	-	BK	PD35	Remote Function Actuator Return	-	-

K82 Mobile Telephone Control Module X1 (UPF)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH32FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 32-Way F 1.6 Series (NA)

Terminal Part Information

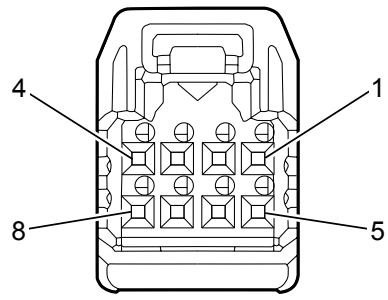
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K82 Mobile Telephone Control Module X1 (UPF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	RT01	Battery Positive Voltage	-	-
2	-	BU	RT02	Accessory/Run Ignition Voltage	-	-
3	-	WH	RT03	Run/Crank Ignition Voltage	-	-
4	-	BK	RTE4	Ground	-	-
5	-	BK	RTE1	Drain Wire	-	-
6	-	-	-	Not Occupied	-	-
7	-	GN	RT05	Cellular Telephone Microphone Signal	-	-
8	-	BARE	RTE2	Cellular Telephone Microphone Low Reference	-	-
9	-	BK	RT13	Mobile Phone Audio Output Plus Signal	-	-
10	-	WH	RT14	Mobile Phone Audio Output Minus Signal	-	-
11	-	RD	RT12	Cellular Telephone Mute Control	-	-
12	-	BN	RT50	Steering Wheel Resistor Ladder Input Signal (1)	-	-
13	-	YE	RT51	Steering Wheel Resistor Ladder Input Signal (2)	-	-
14	-	BARE	RTE3	Steering Wheel Resistor Ladder Input Low Reference	-	-
15-16	-	-	-	Not Occupied	-	-

17	-	L-GN	RT16	Steering Wheel Resistor Ladder Output Signal (1)	-	-
18	-	YE	RT17	Steering Wheel Resistor Ladder Output Signal (2)	-	-
19	-	BK	RT18	Steering Wheel Resistor Ladder Output Low Reference	-	-
20	-	-	-	Not Occupied	-	-
21	-	BK	RTE6	Ground	-	-
22-23	-	-	-	Not Occupied	-	-
24	-	BK	RTE8	Ground	-	-
25-26	-	-	-	Not Occupied	-	-
27	-	BK	RTE9	Ground	-	-
28	-	WH	RT04	Vehicle Speed Signal	-	-
29	-	RD	RT07	Cellular Telephone Microphone Supply Voltage	-	-
30-32	-	-	-	Not Occupied	-	-

K82 Mobile Telephone Control Module X2 (UPF)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH08FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 025 Series (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K82 Mobile Telephone Control Module X2 (UPF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-BU	RT10	CAN Bus Medium Serial Data (+)	-	-
2	-	-	-	Not Occupied	-	-
3	-	L-BU	RT08	CAN Bus Medium Serial Data (+)	-	-
4	-	L-GN	RT09	CAN Bus Medium Serial Data (-)	-	-
5	-	L-GN	RT11	CAN Bus Medium Serial Data (-)	-	-
6	-	-	-	Not Occupied	-	-
7	-	L-BU	RT08	CAN Bus Medium Serial Data (+)	-	-
8	-	L-GN	RT09	CAN Bus Medium Serial Data (-)	-	-

K82 Mobile Telephone Control Module X3 (UPF)

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Connector Part Information

Harness Type: Wireless Communication Antenna - Bluetooth

OEM Connector: Not Available

Service Connector: Service by Cable Assembly - See Part Catalog

Description: 1-Way F Coax Type

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K82 Mobile Telephone Control Module X3 (UPF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	-	Coaxial Antenna Cell Signal	-	-
1S	-	BARE	-	Coaxial Antenna Cell Shield	-	-

K85 Passenger Presence Module

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Connector Part Information

Harness Type: Passenger Seat

OEM Connector: Not Available

Service Connector: Service by Harness Assembly - See Part Catalog

Description: 20-Way F, Sealed (BK)

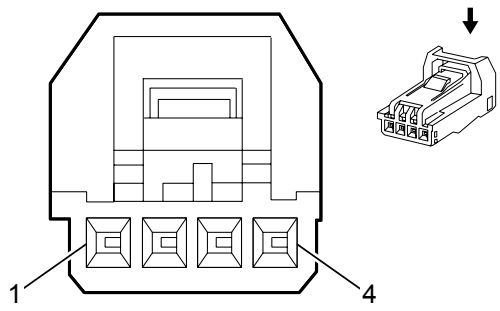
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K85 Passenger Presence Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	VT	FB17	Run/Crank Ignition Voltage	-	-
2	-	-	-	Not Occupied	-	-
3	-	WH	FB18	K-Line Diagnostic Serial Data	-	-
4-7	-	-	-	Not Occupied	-	-
8	-	GY	-	Passenger Seat Position Sensor 1 Low Reference	-	-
9	-	L-GN	-	Passenger Seat Position Sensor 1 Signal	-	-
10	-	BK	FBE3	Ground	-	-
11	-	YE	-	Passenger Seat Position Sensor 2 12V Supply	-	-
12-14	-	-	-	Not Occupied	-	-
15	-	RD	-	Passenger Seat Position Sensor 1 12V Supply	-	-
16	-	L-BU	-	Passenger Seat Position Sensor 2 Signal	-	-
17	-	PK	-	Passenger Seat Position Sensor 2 Low Reference	-	-
18-19	-	-	-	Not Occupied	-	-
20	-	D-BU	FB02	Occupant Sensor Serial Data	-	-

K89 Immobilizer Control Module



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH04FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.5 Series, (WH)

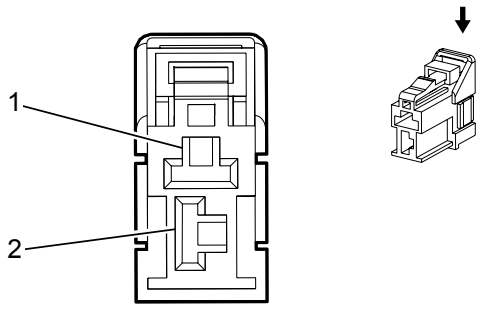
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K89 Immobilizer Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-GN	PF03	Immobilizer Transmit	-	-
2	-	BK	PFE1	Ground	-	-
3	-	PK	PF02	Immobilizer Receive	-	-
4	-	RD	PF01	Battery Positive Voltage	-	-

M8 Blower Motor



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: M02FW-LC

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 250 Series (NA)

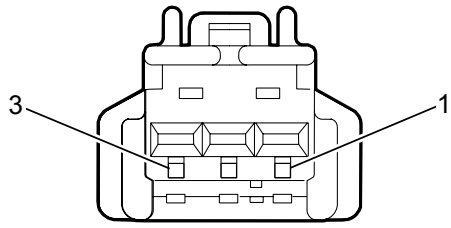
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M8 Blower Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	HA02	Blower Motor Relay Supply Voltage	-	-
2	-	PK	HA03	Blower Motor High Speed Control	-	-

M13 Door Latch Assembly - Rear Cargo



Connector Part Information

Harness Type: Back Door

OEM Connector: NS03FW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 090 Series (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M13 Door Latch Assembly - Rear Cargo

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	-	D-BU	PD26	Rear Cargo Door Lock Motor Lock Control	-	-
3	-	YE	PD27	Rear Cargo Door Lock Motor Unlock Control	-	-

M64 Starter Motor X1

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Connector Part Information

Harness Type: Engine

OEM Connector: 8100-3483

Service Connector: Service by Harness - See Part Catalog

Description: Ring Terminal

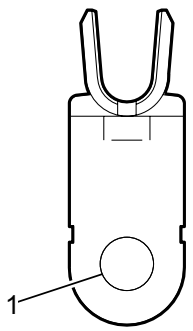
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M64 Starter Motor X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
B	-	BK/RD	AH10	Unfused Battery Positive Voltage	-	-

M64 Starter Motor X2



Connector Part Information

Harness Type: Engine

OEM Connector: 2430_ED024

Service Connector: Service by Harness - See Part Catalog

Description: Ring Terminal

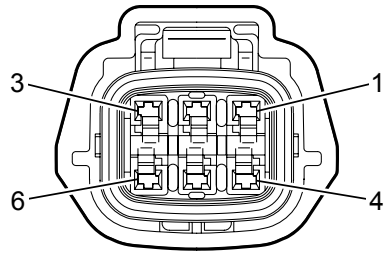
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M64 Starter Motor X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
S	-	RD	AH01	Starter Relay Supply Voltage	-	-

M74D Window Motor - Driver



Connector Part Information

Harness Type: Driver Door

OEM Connector: RS06FG-DGY

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F Sealed (GY)

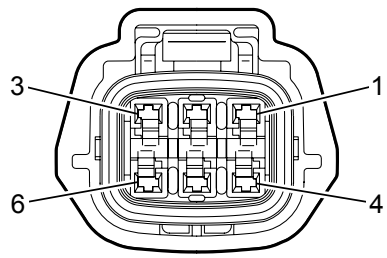
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M74D Window Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-BU	PA08	Power Window Motor Driver Up Control	-	-
2	-	BN	PA06	Driver Power Window Switch Encoder Supply Voltage	-	-
3	-	GY	PA09	Power Window Motor Driver Down Control	-	-
4	-	D-GN	PA10	Driver Power Window Switch Encoder Low Reference	-	-
5	-	WH	PA07	Driver Power Window Switch Encoder Pulse A Signal	-	-
6	-	PK	PA05	Driver Power Window Switch Encoder Pulse B Signal	-	-

M74P Window Motor - Passenger



Connector Part Information

Harness Type: Passenger Door

OEM Connector: RS06FG-DGY

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F Sealed (GY)

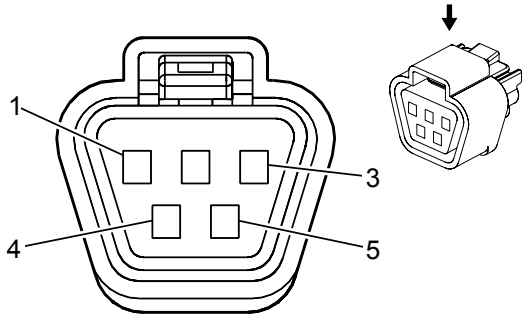
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M74P Window Motor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-BU	PA18	Power Window Motor Passenger Up Control	-	-
2	-	BN	PA13	Passenger Power Window Switch Encoder Supply Voltage	-	-
3	-	YE	PA19	Power Window Motor Passenger Down Control	-	-
4	-	D-GN	PA16	Passenger Power Window Switch Encoder Low Reference	-	-
5	-	WH	PA14	Passenger Power Window Switch Encoder Pulse A Signal	-	-
6	-	PK	PA15	Passenger Power Window Switch Encoder Pulse B Signal	-	-

M75 Windshield Wiper Motor



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: HS05FGY

Service Connector: Service by Harness - See Part Catalog

Description: 5-Way F (GY)

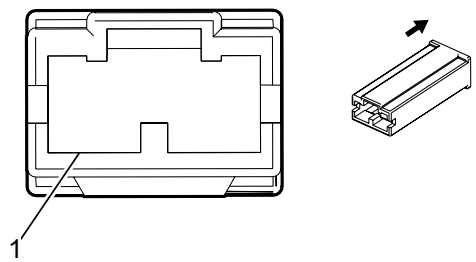
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M75 Windshield Wiper Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	WA03	Windshield Wiper Motor Low Speed Control	-	-
2	-	BK	WAE1	Ground	-	-
3	-	-	-	Not Occupied	-	-
4	-	RD	WA04	Windshield Wiper Motor Park Switch Signal	-	-
5	-	WH	WA02	Windshield Wiper Motor High Speed Control	-	-

P12 Horn X1



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: P01FB-A

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F 250 Series (BK)

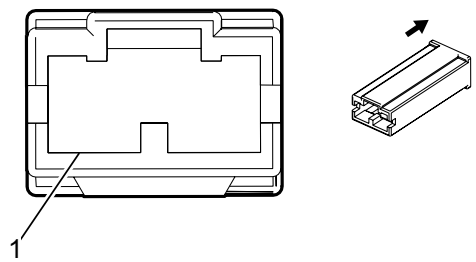
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P12 Horn X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-GN	MH03	Horn Relay Supply Voltage	-	-

P12 Horn X2



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: P01FB-A

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F 250 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P12 Horn X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	MHE1	Ground	-	-

GRAPHIC PENDING

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TK03FW

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 040 Series (NA)

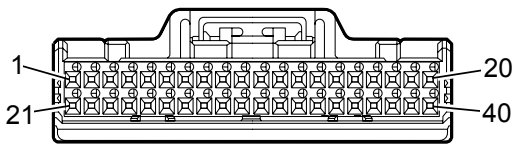
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P14 Passenger Air Bag Disabled Indicator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	FBE2	Ground	-	-
2	-	-	-	Not Occupied	-	-
3	-	RD	FB03	Passenger Air Bag Off Indicator Control	-	-

P16 Instrument Cluster



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH40FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 40-Way F 025 Series (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P16 Instrument Cluster

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	-	BK	LEE2	Ground	-	-
3	-	-	-	Not Occupied	-	-
4	-	WH	RA19	Vehicle Speed Signal	-	-
5-9	-	-	-	Not Occupied	-	-
10	-	D-GN	WB01	Windshield Washer Fluid Level Sensor Signal	-	-
11	-	PK	MA22	CAN Bus High Serial Data (-)	-	-
12	-	-	-	Not Occupied	-	-
13	-	D-BU	MA21	CAN Bus High Serial Data (+)	-	-
14-16	-	-	-	Not Occupied	-	-
17	-	BN	MA05	Fuel Level Sensor Signal	-	-
18	-	WH	MA02	Run/Crank Ignition Voltage	-	-
19	-	-	-	Not Occupied	-	-
20	-	L-GN	MA01	Battery Positive Voltage	-	-
21-23	-	-	-	Not Occupied	-	-

24	-	L-BU	MA07	Park Brake Switch Signal	-	-
25	-	BN	MA06	Brake Fluid Level Sensor Signal	-	-
26	-	D-GN	MA10	Charge Indicator Control	-	-
27	-	OG	MA11	Driver Seat Belt Switch Signal	-	-
28	-	YE	FB27	Seat Belt Reminder Signal	-	-
29	-	YE/BU	FB28	SIR Indicator Control	-	-
30	-	RD	PF04	Security Indicator Control	-	-
31-32	-	-	-	Not Occupied	-	-
33	-	PK	FC01	Overdrive Defeat Switch Signal	-	-
34	-	GY	MA61	Outside Ambient Air Temperature Sensor Signal	-	-
35	-	GY	MA16	Fuel Level Sensor Low Reference	-	-
36	-	-	-	Not Occupied	-	-
37	-	L-GN	MA62	Outside Ambient Temperature Sensor Low Reference	-	-
38	-	BK	MAE1	Ground	-	-
39	-	BK	MAE2	Ground	-	-
40	-	BK	MAE3	Ground	-	-

P19AG Speaker - Left Front Door

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Connector Part Information

Harness Type: Driver Door

OEM Connector: NS02FW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F (WH)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P19AG Speaker - Left Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	GY	RA07	Left Front Speaker (-)	-	-
2	-	GY/D-GN	RA06	Left Front Speaker (+)	-	-

P19AH Speaker - Right Front Door

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Connector Part Information

Harness Type: Passenger Door

OEM Connector: NS02FW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F (WH)

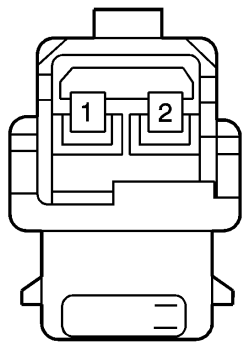
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P19AH Speaker - Right Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	GY	RA05	Right Front Speaker (-)	-	-
2	-	D-GN/WH	RA04	Right Front Speaker (+)	-	-

P28 Speaker - Parking Assist (UD7)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 776127-2

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F (BK)

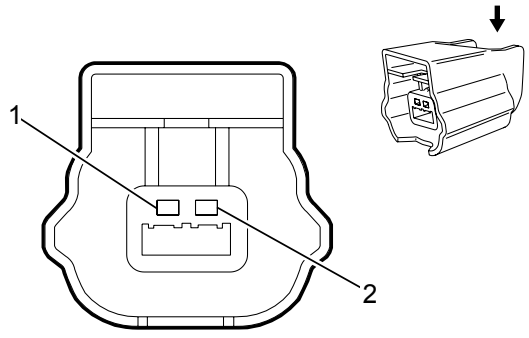
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P28 Speaker - Parking Assist (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	FD05	Park Assist Alarm Low Reference	-	-
2	-	D-BU	FD04	Park Assist Alarm Signal	-	-

Q2 A/C Compressor Clutch



Connector Part Information

Harness Type: Engine

OEM Connector: RH02FB

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 Series, Sealed (BK)

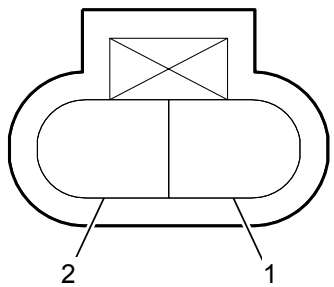
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q2 A/C Compressor Clutch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	HAE2	Ground	-	-
2	-	WH	HA34	A/C Compressor Clutch Supply Voltage	-	-

Q6F Camshaft Position Actuator Solenoid Valve – Intake



Connector Part Information

Harness Type: Engine

OEM Connector: E02FG-RS-LGY

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F, Sealed (GY)

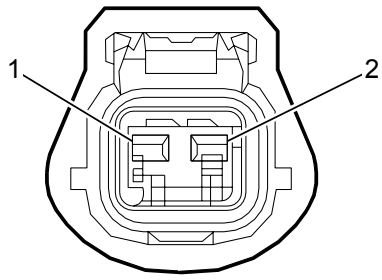
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q6F Camshaft Position Actuator Solenoid Valve – Intake

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PK	AC49	Camshaft Phaser Intake Solenoid Control	-	-
2	-	RD	AC48	Ignition Main Relay Supply Voltage	-	-

Q12 Evaporative Emission Purge Solenoid Valve



Connector Part Information

Harness Type: Engine

OEM Connector: E02FL-RS-LGY

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F Sealed (GY)

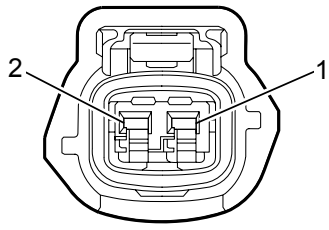
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q12 Evaporative Emission Purge Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PK	AC67	EVAP Canister Purge Solenoid Control	-	-
2	-	D-GN	AC68	Engine Controls Ignition Relay Supply Voltage	-	-

Q13 Evaporative Emission Vent Solenoid Valve



Connector Part Information

Harness Type: Body

OEM Connector: E02FB-RS

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 090 Series, Sealed (BK)

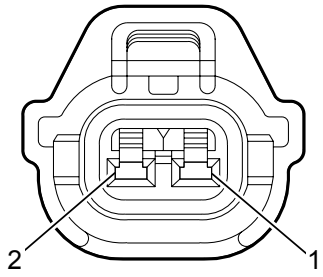
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q13 Evaporative Emission Vent Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	AB40	Engine Controls Ignition Relay Supply Voltage	-	-
2	-	OG	AB41	EVAP Canister Vent Solenoid Control	-	-

Q17A Fuel Injector 1



Connector Part Information

Harness Type: Engine

OEM Connector: HS02FGY

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 090 Series, Sealed (GY)

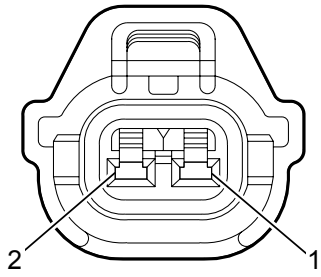
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17A Fuel Injector 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-BU	AC16	Ignition Main Relay Supply Voltage	-	-
2	-	D-BU	AC12	Fuel Injector Control (1)	-	-

Q17B Fuel Injector 2



Connector Part Information

Harness Type: Engine

OEM Connector: HS02FGY

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 090 Series, Sealed (GY)

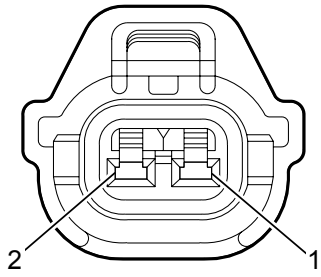
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17B Fuel Injector 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-BU	AC17	Ignition Main Relay Supply Voltage	-	-
2	-	RD	AC13	Fuel Injector Control (2)	-	-

Q17C Fuel Injector 3



Connector Part Information

Harness Type: Engine

OEM Connector: HS02FGY

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 090 Series, Sealed (GY)

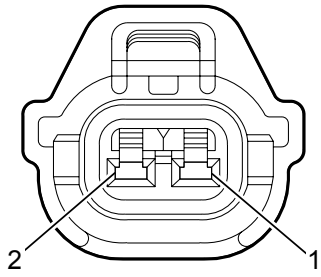
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17C Fuel Injector 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-BU	AC18	Ignition Main Relay Supply Voltage	-	-
2	-	YE	AC14	Fuel Injector Control (3)	-	-

Q17D Fuel Injector 4



Connector Part Information

Harness Type: Engine

OEM Connector: HS02FGY

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 090 Series, Sealed (GY)

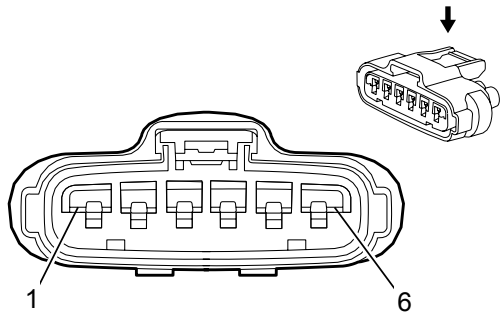
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17D Fuel Injector 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-BU	AC19	Ignition Main Relay Supply Voltage	-	-
2	-	PU	AC15	Fuel Injector Control (4)	-	-

Q38 Throttle Body



Connector Part Information

Harness Type: Engine

OEM Connector: HS06FB

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 090 II Series, Sealed (BK)

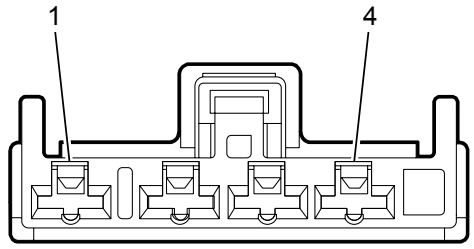
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q38 Throttle Body

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-BU	AC75	Throttle Actuator Control Open	-	-
2	-	PK	AC74	Throttle Actuator Control Close	-	-
3	-	YE	AC76	Throttle Position Sensor Low Reference	-	-
4	-	BN	AC79	Throttle Position Sensor Signal (2)	-	-
5	-	PU	AC78	Throttle Position Sensor 5 Volt Reference	-	-
6	-	D-BU	AC77	Throttle Position Sensor Signal (1)	-	-

R3 Blower Motor Resistor



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: M04FBR-LC

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F (BN)

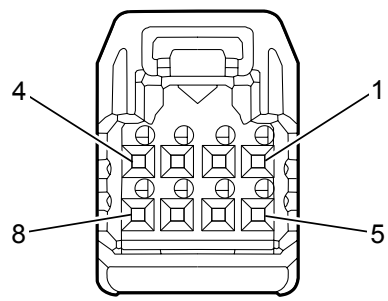
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

R3 Blower Motor Resistor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-BU	HA04	Blower Motor Medium High Speed Control	-	-
2	-	WH	HA06	Blower Motor Low Speed Control	-	-
3	-	PK	HA08	Blower Motor Speed Signal	-	-
4	-	RD	HA05	Blower Motor Medium Low Speed Control	-	-

S3 Transmission Shift Lever



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH08FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 025 Series (NA)

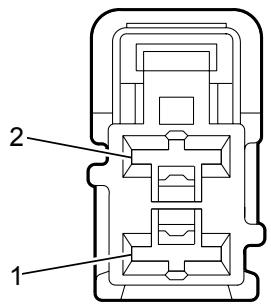
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S3 Transmission Shift Lever

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-GN	FC04	Stop Lamp Switch Signal	-	-
2	-	BK	FCE3	Ground	-	-
3	-	PK	FC01	Overdrive Defeat Switch Signal	-	-
4	-	BK	FCE1	Ground	-	-
5-6	-	-	-	Not Occupied	-	-
7	-	BK	FCE2	Ground	-	-
8	-	VT	FC02	Tail Lamps Relay Supply Voltage	-	-

S7 Cruise Control Brake Switch (K34)



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: M02FBR-LC

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F (BN)

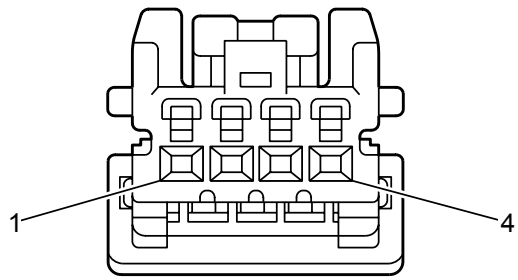
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S7 Cruise Control Brake Switch (K34)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	WH	CA01	Run/Crank Ignition Voltage	-	-
2	-	L-BU	CA02	Brake Pedal Apply Signal	-	-

S26 Hazard Warning Switch



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TK04FW

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 040 III Series (NA)

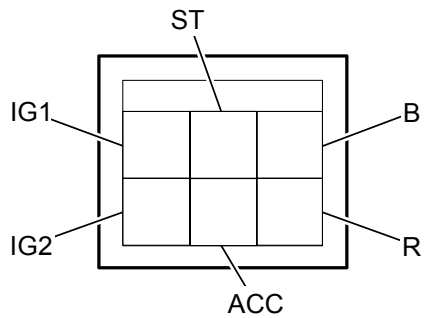
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S26 Hazard Warning Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	LEE2	Ground	-	-
2	-	D-BU	LD01	Hazard Switch Signal	-	-
3	-	BK	LDE2	Ground	-	-
4	-	VT	LD07	Tail Lamps Relay Supply Voltage	-	-

S39 Ignition Switch



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: M06FW-US-DH

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F (WH)

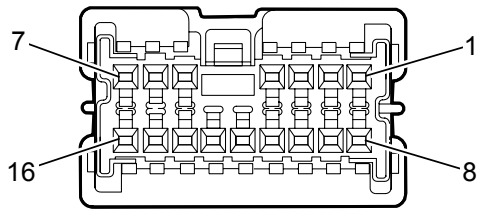
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S39 Ignition Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
ACC	-	BN	DA13	Accessory/Run Ignition Voltage	-	-
B	-	D-BU	DA11	Battery Positive Voltage	-	-
IG1	-	RD	DA14	Run/Crank Ignition Voltage	-	-
IG2	-	YE	DA15	Run Ignition Voltage	-	-
R	-	-	-	Not Occupied	-	-
ST	-	WH	AH03	Crank Ignition Voltage	-	-

S52 Outside Rearview Mirror Switch



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TK16FW

Service Connector: Service by Harness - See Part Catalog

Description: 16-Way F 040 Series (NA)

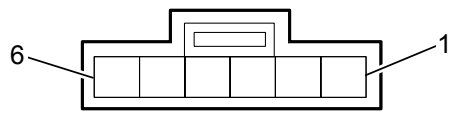
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S52 Outside Rearview Mirror Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	-	GY	KA07	Driver Mirror Motor Up (+) Down (-) Control	-	-
3	-	RD	KA04	Co-Driver Mirror Motor Up (+) Down (-) Control	-	-
4	-	L-GN	KA03	Co-Driver Mirror Motor Right (+) Left (-) Control	-	-
5	-	D-GN	KA06	Driver Mirror Motor Right (-) Left (+) Control	-	-
6	-	PK	KA05	Driver Mirror Motor Common Control	-	-
7	-	WH	KA02	Co-Driver Mirror Motor Common Control	-	-
8-11	-	-	-	Not Occupied	-	-
12	-	BK	KAE1	Ground	-	-
13	-	D-BU	KA01	Accessory/Run Ignition Voltage	-	-
14-16	-	-	-	Not Occupied	-	-

S75 Traction Control Switch



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TK06FGY

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F (GY)

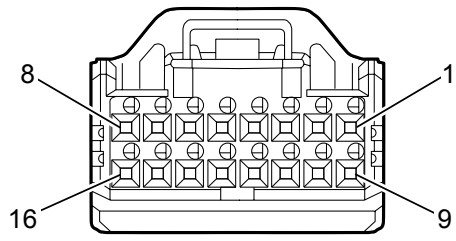
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S75 Traction Control Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	-	PU	BSE6	Ground	-	-
4	-	VT	BS48	Tail Lamps Relay Supply Voltage	-	-
5	-	BK	BSE3	Ground	-	-
6	-	GN	BS41	Traction Control Off Switch Signal	-	-

S78 Turn Signal/Multifunction Switch



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH16FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 16-Way F 025 Series (NA)

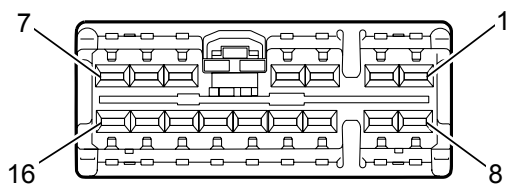
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S78 Turn Signal/Multifunction Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	WA12	Windshield Washer Pump Control	-	-
2	-	D-BU	PD09	Turn Signal/Multifunction Switch Input Signal (4)	-	-
3-6	-	-	-	Not Occupied	-	-
7	-	PK	PD08	Turn Signal/Multifunction Switch Input Signal (3)	-	-
8	-	BK	WAE2	Ground	-	-
9	-	WH	PD03	Turn Signal/Multifunction Switch Output Signal (3)	-	-
10	-	BN	PD10	Turn Signal/Multifunction Switch Input Signal (5)	-	-
11	-	RD	PD02	Turn Signal/Multifunction Switch Output Signal (2)	-	-
12	-	YE	PD04	Turn Signal/Multifunction Switch Output Signal (4)	-	-
13	-	OG	PD01	Turn Signal/Multifunction Switch Output Signal (1)	-	-
14	-	VT	PD06	Turn Signal/Multifunction Switch Input Signal (1)	-	-
15	-	BN	PD05	Turn Signal/Multifunction Switch Output Signal (5)	-	-
16	-	D-GN	PD07	Turn Signal/Multifunction Switch Input Signal (2)	-	-

S101D Door Lock/Window Switch - Driver



Connector Part Information

Harness Type: Driver Door

OEM Connector: NS16FW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 16-Way F 090 Series (NA)

Terminal Part Information

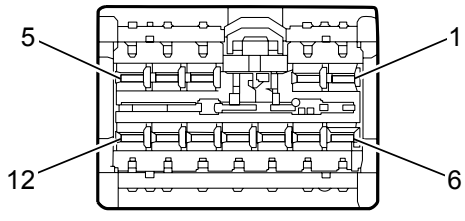
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S101D Door Lock/Window Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PU	PA01	Power Window Supply Voltage	-	-
2	-	-	-	Not Occupied	-	-
3	-	L-BU	PA20	Power Window Serial Data	-	-
4	-	-	-	Not Occupied	-	-
5	-	BN	PA06	Driver Power Window Switch Encoder Supply Voltage	-	-
6	-	PU	PD12	Driver Door Lock Switch Unlock Signal	-	-
7	-	RD	PD11	Driver Door Lock Switch Lock Signal	-	-
8	-	D-BU	PA08	Power Window Motor Driver Up Control	-	-
9	-	PK	PA05	Driver Power Window Switch Encoder Pulse B Signal	-	-
10	-	D-BU	PA02	Power Window Ignition Output	-	-
11	-	GY	PA09	Power Window Motor Driver Down Control	-	-
12	-	-	-	Not Occupied	-	-
13	-	WH	PA07	Driver Power Window Switch Encoder Pulse A Signal	-	-
14	-	D-GN	PA10	Driver Power Window Switch Encoder Low Reference	-	-
15	-	BK	PAE1	Ground	-	-

16	-	-	-	Not Occupied	-	-

S101P Door Lock/Window Switch - Passenger



Connector Part Information

Harness Type: Passenger Door

OEM Connector: NS12FW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 12-Way F 2.3 Series (WH)

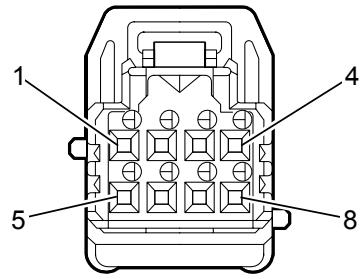
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S101P Door Lock/Window Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PK	PA17	Power Window Supply Voltage	-	-
2	-	BN	PA13	Passenger Power Window Switch Encoder Supply Voltage	-	-
3	-	-	-	Not Occupied	-	-
4	-	PU	PD30	Driver Door Lock Switch Unlock Signal	-	-
5	-	RD	PD29	Driver Door Lock Switch Lock Signal	-	-
6	-	D-BU	PA18	Driver Door Lock Switch Unlock Signal	-	-
7	-	PK	PA15	Passenger Power Window Switch Encoder Pulse B Signal	-	-
8	-	YE	PA19	Power Window Motor Passenger Down Control	-	-
9	-	WH	PA14	Passenger Power Window Switch Encoder Pulse A Signal	-	-
10	-	D-GN	PA16	Passenger Power Window Switch Encoder Low Reference	-	-
11	-	BK	PAE2	Ground	-	-
12	-	L-BU	PA20	Power Window Serial Data	-	-

S107 Parking Assist On/Off Switch (UD7)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH08FG-NH

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F (GN)

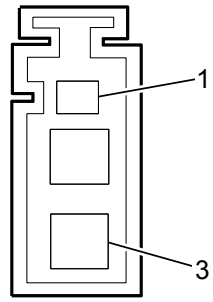
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S107 Parking Assist On/Off Switch (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD/BU	FD20	Tail Lamps Relay Supply Voltage	-	-
2	-	-	-	Not Occupied	-	-
3	-	BK	FDE2	Ground	-	-
4	-	BN	FD21	Ground	-	-
5	-	L-GN	FD07	Rear Park Assist LED Disable Signal	-	-
6	-	PK	FD06	Rear Park Assist On/Off Switch Signal	-	-
7	-	-	-	Not Occupied	-	-
8	-	BK	FDE3	Ground	-	-

T4H Digital Radio Antenna (U1B)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: Not Available

Service Connector: Service by Harness Assembly - See Part Catalog

Description: 3-Way F (GY)

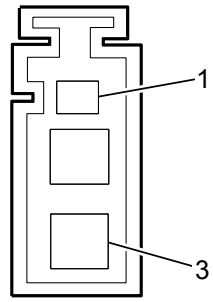
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T4H Digital Radio Antenna (U1B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	-	Antenna Amplifier ON Signal	-	-
2	-	BK	-	AM/FM Antenna Signal	-	-
3	-	-	-	Not Occupied	-	-

T4H Digital Radio Antenna X1 (CWM)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: Not Available

Service Connector: Service by Harness Assembly - See Part Catalog

Description: 3-Way F (GY)

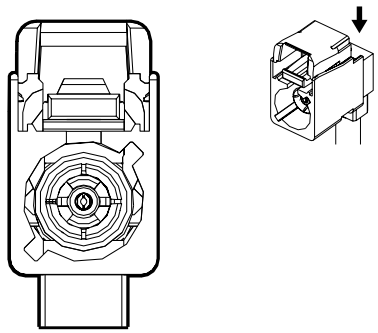
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T4H Digital Radio Antenna X1 (CWM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	-	Antenna Amplifier ON Signal	-	-
2	-	BK	-	AM/FM Antenna Signal	-	-
3	-	-	-	Not Occupied	-	-

T4H Digital Radio Antenna X2 (CWM)



Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: Not Available

Service Connector: Service by Cable Assembly - See Part Catalog

Description: 1-Way F Coax Type (BN)

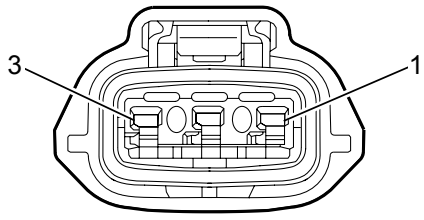
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T4H Digital Radio Antenna X2 (CWM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
-	-	Coax	-	Coaxial Antenna XM Signal	-	-

T8A Ignition Coil 1



Connector Part Information

Harness Type: Engine

OEM Connector: E03FGY-RS

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 090 Series, Sealed (GY)

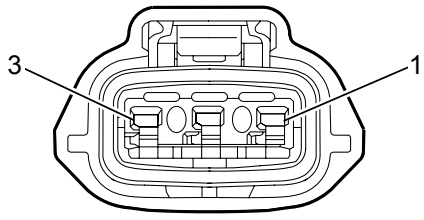
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T8A Ignition Coil 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	AC55	Ignition Control (1)	-	-
2	-	BK	AE20	Ground	-	-
3	-	VT	AC50	Engine Controls Ignition Relay Supply Voltage	-	-

T8B Ignition Coil 2



Connector Part Information

Harness Type: Engine

OEM Connector: E03FGY-RS

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 090 Series, Sealed (GY)

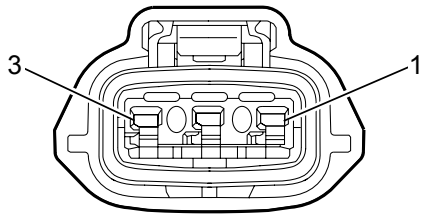
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T8B Ignition Coil 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-GN	AC56	Ignition Control (2)	-	-
2	-	BK	AE21	Ground	-	-
3	-	VT	AC51	Engine Controls Ignition Relay Supply Voltage	-	-

T8C Ignition Coil 3



Connector Part Information

Harness Type: Engine

OEM Connector: E03FGY-RS

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 090 Series, Sealed (GY)

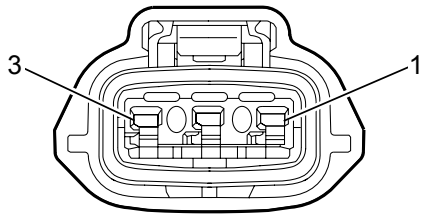
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T8C Ignition Coil 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-BU	AC57	Ignition Control (3)	-	-
2	-	BK	AE22	Ground	-	-
3	-	VT	AC52	Engine Controls Ignition Relay Supply Voltage	-	-

T8D Ignition Coil 4



Connector Part Information

Harness Type: Engine

OEM Connector: E03FGY-RS

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 090 Series, Sealed (GY)

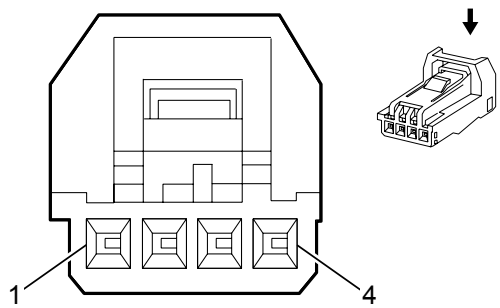
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T8D Ignition Coil 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-GN	AC58	Ignition Control (4)	-	-
2	-	BK	AE23	Ground	-	-
3	-	VT	AC53	Engine Controls Ignition Relay Supply Voltage	-	-

T14 Immobilizer Antenna Amplifier (Z49)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH04FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.5 Series, (WH)

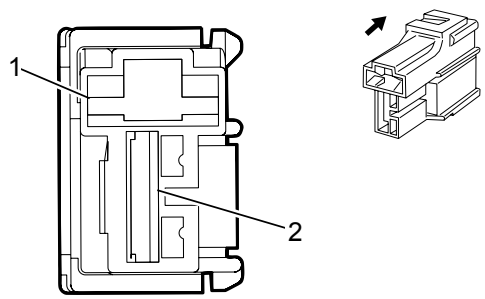
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T14 Immobilizer Antenna Amplifier (Z49)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PK	PF25	Linear Interconnect Network Bus	-	-
2-3	-	-	-	Not Occupied	-	-
4	-	BK	PFE2	Ground	-	-

X80H Accessory Power Receptacle - Center Console



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: P02FB-Z

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 250 Series (BK)

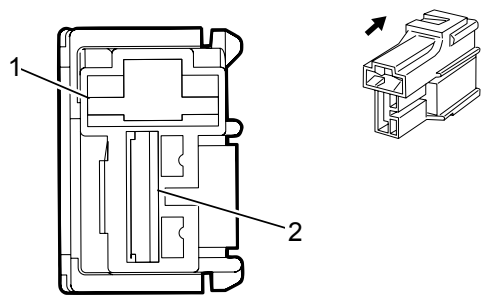
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X80H Accessory Power Receptacle - Center Console

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	GAE2	Ground	-	-
2	-	D-BU	GA02	Accessory Relay Supply Voltage	-	-

X80L Accessory Power Receptacle - Center Console Rear



Connector Part Information

Harness Type: Body

OEM Connector: P02FB-Z

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 250 Series (BK)

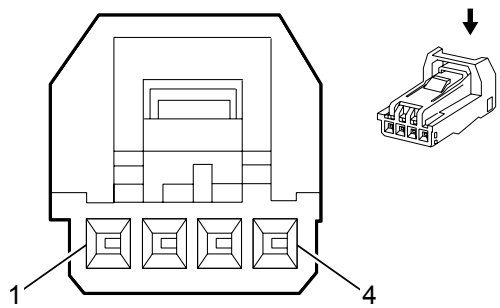
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X80L Accessory Power Receptacle - Center Console Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK	GAE1	Ground	-	-
2	-	RD/BU	GA01	Accessory Relay Supply Voltage	-	-

X83 Auxiliary Audio Input (U1B)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH04FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.5 Series, Sealed (WH)

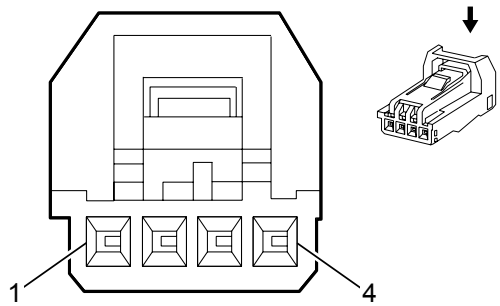
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X83 Auxiliary Audio Input (U1B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	WH	RI41	Right Auxiliary Audio Signal	-	-
2	-	BK	RI42	Auxiliary Audio Common Signal	-	-
3	-	-	-	Not Occupied	-	-
4	-	RD	RI40	Left Auxiliary Audio Signal	-	-

X83 Auxiliary Audio Input X1 (CWM)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH04FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.5 Series, Sealed (WH)

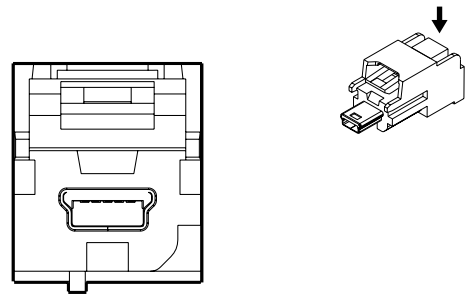
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X83 Auxiliary Audio Input X1 (CWM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	WH	RI41	Right Auxiliary Audio Signal	-	-
2	-	BK	RI42	Auxiliary Audio Common Signal	-	-
3	-	-	-	Not Occupied	-	-
4	-	RD	RI40	Left Auxiliary Audio Signal	-	-

X83 Auxiliary Audio Input X2 (CWM)



Connector Part Information

Harness Type: Instrument Panel USB

OEM Connector: GT17H-4S-HU

Service Connector: Service by Cable Assembly - See Parts Catalog

Description: 5-Way F USB Type (BK)

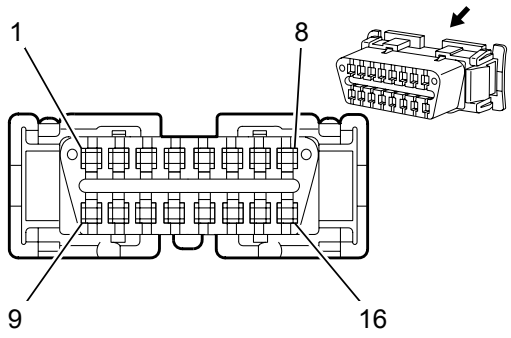
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X83 Auxiliary Audio Input X2 (CWM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
-	-	USB	-	USB Serial Data	I	-

X84 Data Link Connector



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: BD16FW

Service Connector: Service by Harness - See Part Catalog

Description: 16-Way F Hinge Lock Housing (WH)

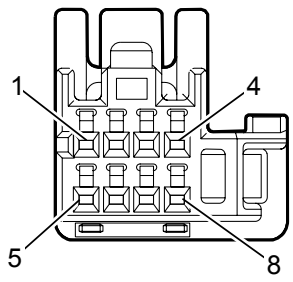
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X84 Data Link Connector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-3	-	-	-	Not Occupied	-	-
4	-	BK	ACE1	Ground	-	-
5	-	BK	ACE2	Ground	-	-
6	-	D-BU	AC97	CAN Bus High Serial Data (+)	-	-
7	-	GY	AC69	K-Line Diagnostic Serial Data	-	-
8	-	WH	AC71	Run/Crank Ignition Voltage	-	-
9-13	-	-	-	Not Occupied	-	-
14	-	PK	AC98	CAN Bus High Serial Data (-)	-	-
15	-	-	-	Not Occupied	-	-
16	-	L-GN	AC70	Battery Positive Voltage	-	-

X85 Steering Wheel Air Bag Coil X1



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TK08FGY-1V

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 040 III Series (GY)

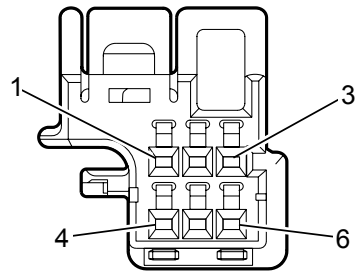
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X85 Steering Wheel Air Bag Coil X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	-	BK	CAE2	Ground	-	-
3	-	PK	CA03	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	-	-
4	-	BN	RT50	Steering Wheel Resistor Ladder Input Signal (1)	-	-
5	-	RD	MH02	Horn Relay Control	-	-
6	-	BK	RTE3	Ground	-	-
7	-	BK	CAE1	Ground	-	-
8	-	YE	RT51	Steering Wheel Resistor Ladder Input Signal (2)	-	-

X85 Steering Wheel Air Bag Coil X2



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TK06FY-EX-1V

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 040 III Series (YE)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X85 Steering Wheel Air Bag Coil X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	VT	CA06	Tail Lamps Relay Supply Voltage	-	-
2-3	-	-	-	Not Occupied	-	-
4	-	YE/RD	FB21	Steering Wheel Module - Low Control	-	-
5	-	YE/GN	FB22	Steering Wheel Module Stage 2 High Control	-	-
6	-	YE	FB19	Steering Wheel Module Stage 1 High Control	-	-

X85 Steering Wheel Air Bag Coil X3

–

Connector Part Information

Harness Type: Steering Wheel

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F (GY)

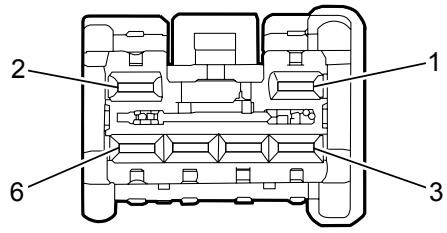
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X85 Steering Wheel Air Bag Coil X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD	CA03	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	-	-
2	-	WH	RT50	Steering Wheel Resistor Ladder Input Signal (1)	-	-
3	-	D-BU	RT51	Steering Wheel Resistor Ladder Input Signal (2)	-	-
4	-	BK	CAE1	Cruise Control Switch Low Reference	-	-
5	-	BN	RTE3	Steering Wheel Resistor Ladder Input Low Reference	-	-
6	-	D-GN	MH02	Horn Relay Control	-	-
7	-	PK	CAE2	Backlight Lamp Control	-	-
8	-	YE	CA06	Tail Lamps Relay Supply Voltage	-	-

X87LB Sliding Door Jamb Contact Plate - Left Body



Connector Part Information

Harness Type: Body

OEM Connector: NS06FW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F, 2.3 Series (WH)

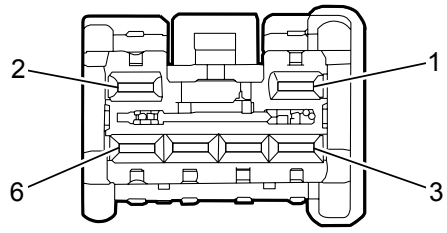
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X87LB Sliding Door Jamb Contact Plate - Left Body

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE	PD25	Left Sliding Door Lock Motor Unlock Control	-	-
2	-	-	-	Not Occupied	-	-
3	-	D-BU	PD24	Left Sliding Door Lock Motor Lock Control	-	-
4-6	-	-	-	Not Occupied	-	-

X87RB Sliding Door Jamb Contact Plate - Right Body



Connector Part Information

Harness Type: Body

OEM Connector: NS06FW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 2.3 Series

Terminal Part Information

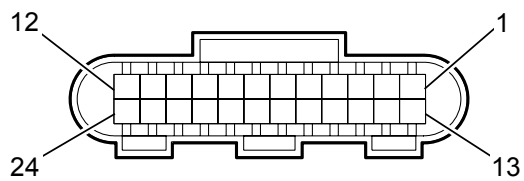
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X87RB Sliding Door Jamb Contact Plate - Right Body

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	-	YE	PD23	Right Sliding Door Lock Motor Lock Control	-	-
3-5	-	-	-	Not Occupied	-	-
6	-	D-BU	PD22	Right Sliding Door Lock Motor Unlock Control	-	-

Splice Pack Connector End Views

JX101 Engine Compartment Harness



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: SAA24FB-J

Service Connector: Service by Harness - See Part Catalog

Description: 24-Way F (BK)

Terminal Part Information

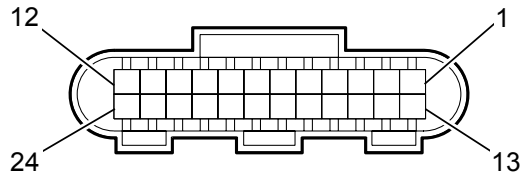
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

JX101 Engine Compartment Harness

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-BU	BS10	K-Line Diagnostic Serial Data	-	-
2	-	L-BU	AC69	K-Line Diagnostic Serial Data	-	-
3	-	L-BU	AC69	K-Line Diagnostic Serial Data	-	-
4	-	VT	BS43	Ignition Main Relay Supply Voltage	-	-
5	-	VT	BS03	Ignition Main Relay Supply Voltage	-	-
6	-	VT	BS03	Ignition Main Relay Supply Voltage	-	-
7	-	L-BU	LR01	Ignition Main Relay Supply Voltage	-	-
8	-	L-BU	LR01	Ignition Main Relay Supply Voltage	-	-
9	-	-	-	Not Occupied	–	–
10	-	L-GN	AH04	Neutral Safety Switch Park/Neutral SignalS	-	-
11	-	L-GN	AH04	Neutral Safety Switch Park/Neutral Signal	-	-
12-16	-	-	-	Not Occupied	–	–
17	-	BK	WBE2	Ground	-	-
18	-	BK	MAE5	Ground	-	-
19	-	BK	MAE5	Ground	-	-

20	-	-	-	Not Occupied	–	–
21	-	RD	BS32	Stop Lamp Supply Voltage	-	-
22	-	RD	AC90	Stop Lamp Supply Voltage	-	-
23	-	RD	LS02	Stop Lamp Supply Voltage	-	-
24	-	RD	LS02	Stop Lamp Supply Voltage	-	-

JX102 Engine Harness



Connector Part Information

Harness Type: Engine

OEM Connector: SAA24FB-J

Service Connector: Service by Harness - See Part Catalog

Description: 24-Way F (BK)

Terminal Part Information

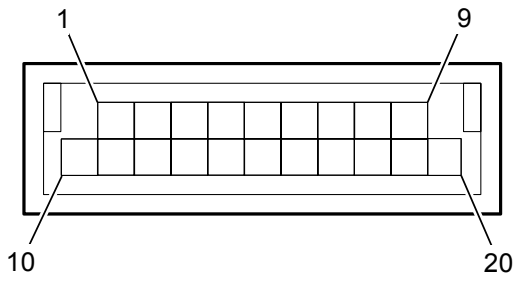
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

JX102 Engine Harness

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-GN	BA34	Park/Neutral Position Switch Range Signal (R)	-	-
2	-	D-GN	BA34	Park/Neutral Position Switch Range Signal (R)	-	-
3	-	D-GN	LR04	Backup Lamp Supply Voltage Signal	-	-
4	-	L-GN	AC95	Transmission Park/Neutral Signal	-	-
5	-	L-GN	AH04	Neutral Safety Switch Park/Neutral Signal	-	-
6	-	L-GN	AH04	Neutral Safety Switch Park/Neutral Signal	-	-
7	-	BN	AC80	Sensor 5 Volt Reference	-	-
8	-	BN	AC80	Sensor 5 Volt Reference	-	-
9	-	BN	AI03	Sensor Low Reference	-	-
10	-	L-GN	AC81	Fuel Tank Pressure Sensor Signal	-	-
11	-	L-GN	AC81	Fuel Tank Pressure Sensor Signal	-	-
12-13	-	-	-	Not Occupied	–	–
14	-	D-GN	AI02	Current Sensor Signal	-	-
15	-	D-GN	AI02	Current Sensor Signal	-	-
16	-	BK	ACE5	Ground	-	-

17	-	BK	ACE4	Ground	-	-
18	-	BK	ACE3	Ground	-	-
19	-	L-GN	BA19	Ignition Main Relay Supply Voltage	-	-
20	-	L-GN	BA30	Ignition Main Relay Supply Voltage	-	-
21	-	L-GN	BA30	Ignition Main Relay Supply Voltage	-	-
22	-	L-GN	BA52	Ignition Main Relay Supply Voltage	-	-
23	-	L-GN	BA55	Ignition Main Relay Supply Voltage	-	-
24	-	-	-	Not Occupied	–	–

JX200 Engine Compartment Harness



Connector Part Information

Harness Type: Engine Compartment

OEM Connector: NH20HW-J

Service Connector: Service by Harness - See Part Catalog

Description: 20-Way F (WH)

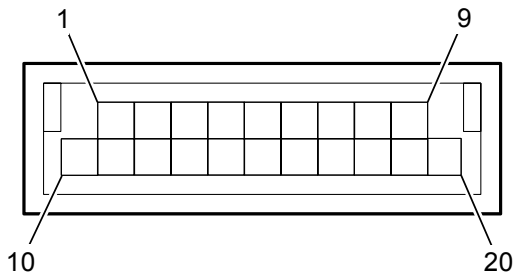
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

JX200 Engine Compartment Harness

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1–9	-	-	-	Not Occupied	–	–
10	-	D-BU	IA01	CAN Bus High Serial Data (+)	-	-
11	-	D-BU	IA01	CAN Bus High Serial Data (+)	-	-
12	-	D-BU	BA80	CAN Bus High Serial Data (+)	-	-
13	-	D-BU	BS21	CAN Bus High Serial Data (+)	-	-
14	-	D-BU	DA44	CAN Bus High Serial Data (+)	-	-
15	-	-	-	Not Occupied	–	–
16	-	PK	DA45	CAN Bus High Serial Data (-)	-	-
17	-	PK	BS22	CAN Bus High Serial Data (-)	-	-
18	-	PK	BA81	CAN Bus High Serial Data (-)	-	-
19	-	PK	IA02	CAN Bus High Serial Data (-)	-	-
20	-	PK	IA02	CAN Bus High Serial Data (-)	-	-

JX201 Instrument Panel Harness



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: NH20FW-DC

Service Connector: Service by Harness - See Part Catalog

Description: 20-Way F (WH)

Terminal Part Information

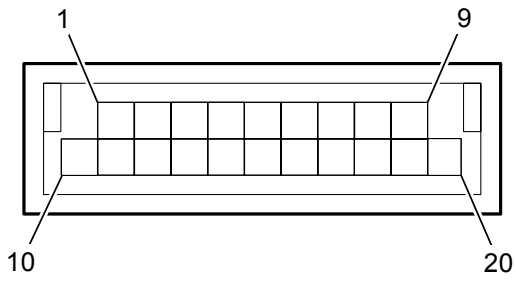
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

JX201 Instrument Panel Harness

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	L-BU	RT10	CAN Bus Medium Serial Data (+)	-	UPF
2	-	L-BU	RT10	CAN Bus Medium Serial Data (+)	-	UPF
3	-	L-BU	RA12	CAN Bus Medium Serial Data (+)	-	UPF
4	-	BK	RAE2	Ground	-	-
5	-	BK	RAE2	Ground	-	-
6	-	BK	RIE1	Ground	-	-
7	-	L-GN	RA13	CAN Bus Medium Serial Data (-)	-	UPF
8	-	L-GN	RT11	CAN Bus Medium Serial Data (-)	-	UPF
9	-	L-GN	RT11	CAN Bus Medium Serial Data (-)	-	UPF
10	-	D-BU	IA01	CAN Bus High Serial Data (+)	-	-
11	-	D-BU	IA01	CAN Bus High Serial Data (+)	-	-
12	-	D-BU	MP10	CAN Bus High Serial Data (+)	-	-
13	-	D-BU	FB10	CAN Bus High Serial Data (+)	-	-
14	-	D-BU	RA91	CAN Bus High Serial Data (+)	-	CWM
15	-	-	-	Not Occupied	–	–

16	-	PK	RA92	CAN Bus High Serial Data (-)	-	CWM
17	-	PK	FB20	CAN Bus High Serial Data (-)	-	-
18	-	PK	MP20	CAN Bus High Serial Data (-)	-	-
19	-	PK	IA02	CAN Bus High Serial Data (-)	-	-
20	-	PK	IA02	CAN Bus High Serial Data (-)	-	-

JX202 Instrument Panel Harness



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: NH20FL-DC

Service Connector: Service by Harness - See Part Catalog

Description: 20-Way F (WH)

Terminal Part Information

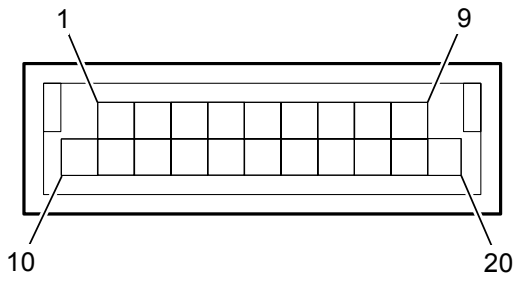
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

JX202 Instrument Panel Harness

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	PU	LT02	Tail Lamps Relay Supply Voltage	-	-
2	-	PU	LT02	Tail Lamps Relay Supply Voltage	-	-
3	-	VT	CA06	Tail Lamps Relay Supply Voltage	-	-
4	-	VT	FC02	Tail Lamps Relay Supply Voltage	-	-
5	-	VT	BS48	Tail Lamps Relay Supply Voltage	-	-
6	-	VT	HA30	Tail Lamps Relay Supply Voltage	-	-
7	-	VT	RA03	Tail Lamps Relay Supply Voltage	-	-
8	-	VT	LD07	Tail Lamps Relay Supply Voltage	-	-
9-10	-	-	-	Not Occupied	–	–
11	-	BK	LEE2	Backlight Lamp Control	-	-
12	-	BK	LEE2	Backlight Lamp Control	-	-
13	-	BK	CAE2	Backlight Lamp Control	-	-
14	-	BK	FCE2	Backlight Lamp Control	-	CWM
15	-	BK	BSE6	Backlight Lamp Control	-	-
16	-	BK	HAE4	Backlight Lamp Control	-	CWM

17	-	BK	RAE1	Backlight Lamp Control	-	-
18	-	-	RT22	Not Used	-	-
19	-	YE/BU	FB28	SIR Indicator Control	-	-
20	-	YE/BU	FB28	SIR Indicator Control	-	-

JX203 Instrument Panel Harness



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: NH20FL-DC

Service Connector: Service by Harness - See Part Catalog

Description: 20-Way F (WH)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

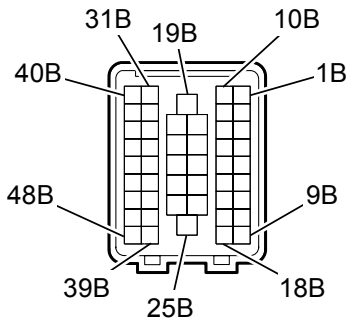
JX203 Instrument Panel Harness

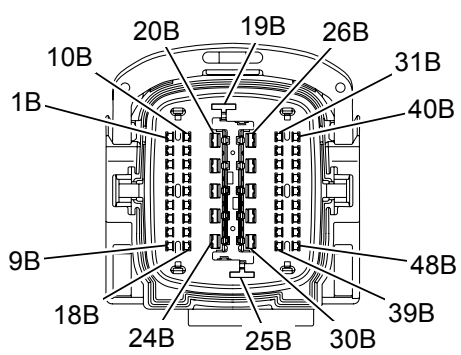
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	D-BU	IA01	CAN Bus High Serial Data (+)	-	-
2	-	D-BU	IA01	CAN Bus High Serial Data (+)	-	-
3	-	D-BU	AC97	CAN Bus High Serial Data (+)	-	-
4	-	D-BU	MA21	CAN Bus High Serial Data (+)	-	-
5	-	D-BU	BW02	CAN Bus High Serial Data (+)	-	-
6	-	D-BU	PS10	CAN Bus High Serial Data (+)	-	-
7	-	-	RT25	Not Used	-	-
8-10	-	-	-	Not Occupied	–	–
11	-	PK	IA02	CAN Bus High Serial Data (-)	-	-
12	-	PK	IA02	CAN Bus High Serial Data (-)	-	-
13	-	PK	AC98	CAN Bus High Serial Data (-)	-	-
14	-	PK	MA22	CAN Bus High Serial Data (-)	-	CWM
15	-	PK	BW03	CAN Bus High Serial Data (-)	-	-
16	-	PK	PS11	CAN Bus High Serial Data (-)	-	CWM
17	-	-	RT26	Not Used	-	-

18	-	RD/BU	FB17	Run/Crank Ignition Voltage	-	-
19	-	D-GN	FB01	Run/Crank Ignition Voltage	-	-
20	-	D-BU	FB01	Run/Crank Ignition Voltage	-	-

Inline Harness Connector End Views

X150 Engine Harness to Engine Compartment Harness





Connector Part Information

Harness Type: Engine

OEM Connector: SAA36FB-RS10–SJZ2

Service Connector: Service by Harness - See Part Catalog

Description: 48-Way F, Sealed (BK)

Connector Part Information

Harness Type: Engine Compartment

OEM Connector: SAA36MB-RS10–SJZ2

Service Connector: Service by Harness - See Part Catalog

Description: 48-Way M, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

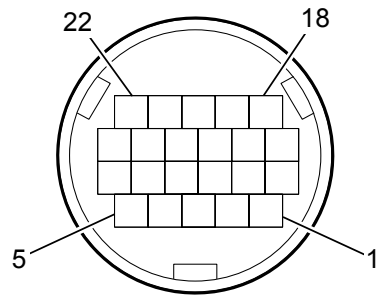
X150 Engine Harness to Engine Compartment Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1B-7B	-	-	-	-	-	Not Occupied	1B-7B	-	-	-	-	-
8B	-	BK	BAE2	-	-	Ground	8B	-	BK	BAE2	-	-
9B	-	BK	BAE1	-	-	Ground	9B	-	BK	BAE1	-	-
10B	-	L-BU	AC16	-	-	Ignition Main Relay Supply Voltage	10B	-	L-BU	AC16	-	-
11B	-	L-GN	AH04	-	-	Neutral Safety Switch Park/Neutral Signal	11B	-	L-GN	AH04	-	-
12B	-	BK	AC82	-	-	Sensor Low Reference	12B	-	BK	AC82	-	-

12B	-	BK	AC82	-	-	Sensor Low Reference	12B	-	BK	AC82	-	-
13B	-	L-GN	AC81	-	-	EVAP Emission Pressure Sensor Signal	13B	-	L-GN	AC81	-	-
14B	-	BN	AC80	-	-	Sensor 5 Volt Reference	14B	-	BN	AC80	-	-
15B	-	D-BU	DA53	-	-	Battery Positive Voltage	15B	-	D-BU	DA53	-	-
16B	-	D-GN	LR04	-	-	Backup Lamp Supply Voltage Signal	16B	-	D-GN	LR04	-	-
17B	-	PK	BA81	-	-	CAN Bus High Serial Data (-)	17B	-	PK	BA81	-	-
18B	-	D-BU	BA80	-	-	CAN Bus High Serial Data (+)	18B	-	D-BU	BA80	-	-
19B	-	-	-	-	-	Not Occupied	19B	-	-	-	-	-
20B	-	L-BU	LR01	-	-	Ignition Main Relay Supply Voltage	20B	-	L-BU	LR01	-	-
21B	-	D-GN	AC68	-	-	Engine Controls Ignition Relay Supply Voltage	21B	-	D-GN	AC68	-	-
22B	-	-	-	-	-	Not Occupied	22B	-	-	-	-	-
23B	-	BK	AE19	-	-	Ground	23B	-	BK	AE19	-	-
24B	-	RD	AC29	-	-	Ignition Main Relay Supply Voltage	24B	-	RD/WH	AC29	-	-
25B	-	RD	AH01	-	-	Starter Relay Supply Voltage	25B	-	RD	AH01	-	-
26B	-	BK	AE02	-	-	Ground	26B	-	BK	AE02	-	-
27B	-	L-GN	AC24	-	-	Throttle Body Relay Control	27B	-	L-GN	AC24	-	-
28B	-	VT	AC50	-	-	Engine Controls Ignition Relay Supply Voltage	28B	-	YE	AC50	-	-
29B	-	OG	AB41	-	-	EVAP Canister Vent Solenoid Control	29B	-	OG	AB41	-	-
30B	-	BN	AC96	-	-	Engine Controls Ignition Relay Supply Voltage	30B	-	D-GN	AC96	-	-
31B	-	D-GN	MA10	-	-	Charge Indicator Control	31B	-	D-GN	MA10	-	-
32B	-	BN	DA23	-	-	Battery Positive Voltage	32B	-	BN	DA23	-	-
33B	-	YE	AC23	-	-	Throttle Body Relay Supply Voltage	33B	-	YE	AC23	-	-
34B	-	GY	AC21	-	-	Fuel Pump Relay Control	34B	-	GY	AC21	-	-
35B	-	PK	AC04	-	-	Engine Controls Ignition Relay Control	35B	-	D-BU	AC04	-	-

36B	-	D-BU	AB43	-	-	Fuel Temperature Signal	36B	-	D-BU	AB43	-	-
37B	-	GY	DA24	-	-	Power Generation Command Signal	37B	-	GY	DA24	-	-
38B	-	L-GN	BA18	-	-	Ignition Main Relay Supply Voltage	38B	-	L-GN	BA18	-	-
39B	-	L-GN	BA19	-	-	Ignition Main Relay Supply Voltage	39B	-	L-GN	BA19	-	-
40B	-	WH	HA34	-	-	A/C Compressor Clutch Supply Voltage	40B	-	WH	HA34	-	-
41B-48B	-	-	-	-	-	Not Occupied	41B-48B	-	-	-	-	-

X175 Engine Harness to Transmission Assembly Harness



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Connector Part Information

Harness Type: Engine

OEM Connector: RK22FGY

Service Connector: Service by Harness - See Part Catalog

Description: 22-Way F, Sealed (GY)

Connector Part Information

Harness Type: Transmission Assembly

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 22-Way M, Sealed (GY)

Terminal Part Information

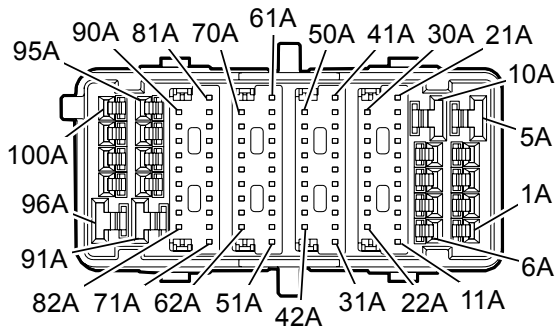
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

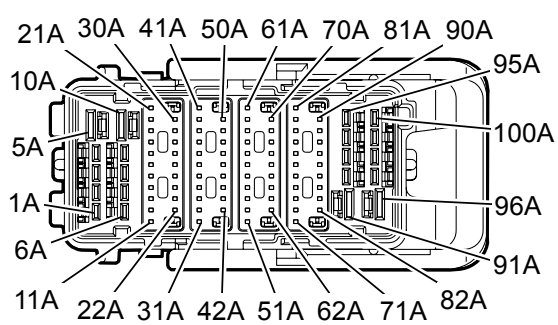
X175 Engine Harness to Transmission Assembly Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	YE	BA01	-	-	Transmission Mainline Pressure Solenoid Control	1	-	-	BA01	-	-
2	-	WH	BA02	-	-	Transmission Pressure Control Solenoid 1 Control	2	-	-	BA02	-	-
3	-	GN	BA03	-	-	Transmission Pressure Control Solenoid 2 Control	3	-	-	BA03	-	-
4	-	BU	BA04	-	-	Torque Converter Clutch Pressure Control Solenoid Control	4	-	-	BA04	-	-
5	-	RD	BA11	-	-	Torque Converter Clutch Enable Solenoid Control	5	-	-	BA11	-	-
6-11	-	-	-	-	-	Not Occupied	6-11	-	-	-	-	-
12	-	BN	BA47	-	-	Transmission Temperature Sensor Signal	12	-	-	BA47	-	-

13	-	GY	BA38	-	-	Transmission Fluid Pressure Sensor Signal (2)	13	-	-	BA38	-	-
14	-	PK	BA37	-	-	Transmission Fluid Pressure Sensor Signal (1)	14	-	-	BA37	-	-
15-17	-	-	-	-	-	Not Occupied	15-17	-	-	-	-	-
18	-	YE	BA40	-	-	Sensor Low Reference	18	-	-	BA40	-	-
19-21	-	-	-	-	-	Not Occupied	19-21	-	-	-	-	-
22	-	WH	BA46	-	-	Transmission Fluid Pressure Sensor 5 Volt Reference	22	-	-	BA46	-	-

X201 Instrument Panel Harness to Engine Compartment Harness





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH80FW-CS16–TM4

Service Connector: Service by Harness - See Part Catalog

Description: 100-Way F (WH)

Connector Part Information

Harness Type: Engine Compartment

OEM Connector: TH80MW-CS16–TM4

Service Connector: Service by Harness - See Part Catalog

Description: 100-Way M (WH)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X201 Instrument Panel Harness to Engine Compartment Harness

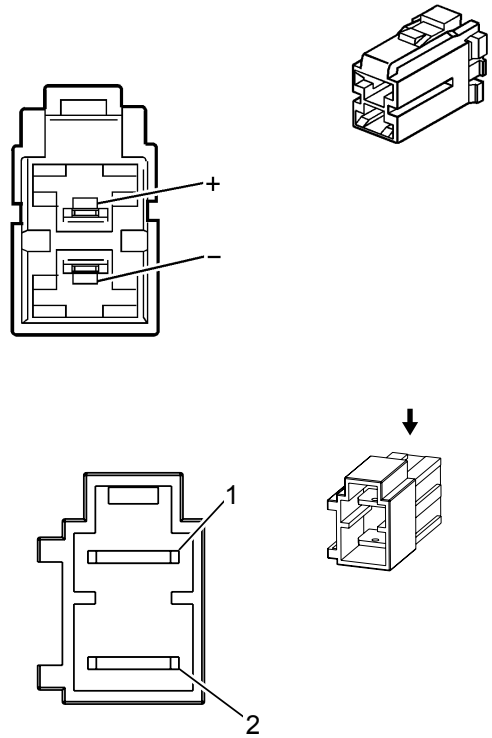
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1A	-	D-GN	LR04	-	-	Backup Lamp Supply Voltage Signal	1A	-	D-GN	LR04	-	-
2A	-	YE	AB40	-	-	Engine Controls Ignition Relay Supply Voltage	2A	-	YE	AB40	-	-
3A	-	RD	PF01	-	-	Battery Positive Voltage	3A	-	RD	PF01	-	-
4A	-	D-GN	AC20	-	-	Fuel Pump Relay Supply Voltage	4A	-	D-GN	AC20	-	-
5A	-	WH	AH03	-	-	Crank Ignition Voltage	5A	-	WH	AH03	-	-

6A	-	OG	AB41	-	-	EVAP Canister Vent Solenoid Control	6A	-	OG	AB41	-	-
7A	-	RD	MH02	-	-	Horn Relay Control	7A	-	RD	MH02	-	-
8A	-	PU	LT02	-	-	Tail Lamps Relay Supply Voltage	8A	-	PU	LT02	-	-
9A	-	-	-	-	-	Not Occupied	9A	-	-	-	-	-
10A	-	BN	NA01	-	-	Rear Defogger Relay Supply Voltage	10A	-	RD	NA01	-	-
11A	-	PK	IA02	-	-	CAN Bus High Serial Data (-)	11A	-	PK	IA02	-	-
12A	-	D-BU	IA01	-	-	CAN Bus High Serial Data (+)	12A	-	D-BU	IA01	-	-
13A	-	-	-	-	-	Not Occupied	13A	-	-	-	-	-
14A	-	PU	LD18	-	-	Left Turn Signal Lamp Supply Voltage	14A	-	PU	LD18	-	-
15A	-	WH	LD17	-	-	Right Turn Signal Lamp Supply Voltage	15A	-	WH	LD17	-	-
16A	-	D-BU	AB43	-	-	Fuel Temperature Signal	16A	-	D-BU	AB43	-	-
17A	-	-	-	-	-	Not Occupied	17A	-	-	-	-	-
18A	-	BN	MP05	-	-	Left Front Tire Pressure Receiver Low Reference	18A	-	BN	MP05	-	-
19A	-	L-GN	MP04	-	-	Left Front Tire Pressure Receiver Supply Voltage	19A	-	L-GN	MP04	-	-
20A	-	RD	MP03	-	-	Left Front Tire Pressure Receiver Signal	20A	-	RD	MP03	-	-
21A	-	WH	MP02	-	-	Left Front Tire Pressure Receiver Serial Data	21A	-	WH	MP02	-	-
22A-23A	-	-	-	-	-	Not Occupied	22A-23A	-	-	-	-	-
24A	-	D-GN	WB01	-	-	Windshield Washer Fluid Level Sensor Signal	24A	-	D-GN	WB01	-	-
25A	-	GY	AC69	-	-	K-Line Diagnostic Serial Data	25A	-	L-BU	AC69	-	-
26A	-	OG	DA37	-	-	Run/Crank Ignition Voltage	26A	-	OG	DA37	-	-
27A	-	GY	MP09	-	-	Right Front Tire Pressure Receiver Low Reference	27A	-	GY	MP09	-	-

28A	-	VT	MP08	-	-	Right Front Tire Pressure Receiver Supply Voltage	28A	-	VT	MP08	-	-
29A	-	D-GN	MP07	-	-	Right Front Tire Pressure Receiver Signal	29A	-	D-GN	MP07	-	-
30A	-	BN	MP06	-	-	Right Front Tire Pressure Receiver Serial Data	30A	-	BN	MP06	-	-
31A	-	L-GN	MA62	-	-	Outside Ambient Temperature Sensor Low Reference	31A	-	L-GN	MA62	-	-
32A	-	GY	MA61	-	-	Outside Ambient Air Temperature Sensor Signal	32A	-	VT	MA61	-	-
33A	-	D-GN	MA10	-	-	Charge Indicator Control	33A	-	D-GN	MA10	-	-
34A	-	BN	MA06	-	-	Brake Fluid Level Sensor Signal	34A	-	BN	MA06	-	-
35A	-	BK	AC82	-	-	Sensor Low Reference	35A	-	BK	AC82	-	-
36A	-	L-GN	AC81	-	-	EVAP Emission Pressure Sensor Signal	36A	-	L-GN	AC81	-	-
37A	-	BN	AC80	-	-	Sensor 5 Volt Reference	37A	-	BN	AC80	-	-
38A	-	BK	CAE1	-	-	Cruise Control Switch Low Reference	38A	-	BK	CAE1	-	-
39A	-	PK	CA03	-	-	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	39A	-	PK	CA03	-	-
40A	-	GN	FC04	-	-	Stop Lamp Switch Signal	40A	-	GN	FC04	-	-
41A	-	WH	FC03	-	-	Run/Crank Ignition Voltage	41A	-	WH	FC03	-	-
42A	-	RD	BS31	-	-	Wheel Speed Sensor Signal Left Rear	42A	-	RD	BS31	-	-
43A	-	WH	BS30	-	-	Wheel Speed Sensor Low Reference Left Rear	43A	-	WH	BS30	-	-
44A	-	GY	BS29	-	-	Wheel Speed Sensor Signal Right Rear	44A	-	PU	BS29	-	-
45A	-	D-BU	BS28	-	-	Wheel Speed Sensor Low Reference Right Rear-	45A	-	BU	BS28	-	-
46A	-	PU	BS43	-	-	Ignition Main Relay Supply Voltage	46A	-	PU	BS43	-	-
47A	-	D-GN	BS41	-	-	Traction Control Off Switch Signal	47A	-	D-GN	BS41	-	-

						Switch Signal						
48A	-	WH	BS47	-	-	CAN Bus High Serial Data (+)	48A	-	WH	BS47	-	-
49A	-	PK	BS45	-	-	CAN Bus High Serial Data (-)	49A	-	PK	BS45	-	-
50A	-	WH	CA01	-	-	Run/Crank Ignition Voltage	50A	-	WH	CA01	-	-
51A-70A	-	-	-	-	-	Not Occupied	51A-70A	-	-	-	-	-
71A	-	WH	FB04	-	-	Middle Front Impact Sensing Module Signal	71A	-	WH	FB04	-	-
72A	-	BK	FB05	-	-	Middle Front Impact Sensing Module Low Reference	72A	-	BK	FB05	-	-
73A-81A	-	-	-	-	-	Not Occupied	73A-81A	-	-	-	-	-
82A	-	BK	FE01	-	-	Ground	82A	-	BK	FE01	-	-
83A-90A	-	-	-	-	-	Not Occupied	83A-90A	-	-	-	-	-
91A	-	YE	DA09	-	-	Battery Positive Voltage	91A	-	YE	DA09	-	-
92A	-	D-BU	LS01	-	-	Battery Positive Voltage	92A	-	D-BU	LS01	-	-
93A	-	RD	LS02	-	-	Stop Lamp Supply Voltage	93A	-	RD	LS02	-	-
94A	-	-	-	-	-	Not Occupied	94A	-	-	-	-	-
95A	-	RD	RA01	-	-	Battery Positive Voltage	95A	-	RD	RA01	-	-
96A	-	D-BU	DA11	-	-	Battery Positive Voltage	96A	-	D-BU	DA11	-	-
97A-98A	-	-	-	-	-	Not Occupied	97A-98A	-	-	-	-	-
99A	-	YE	WA12	-	-	Windshield Washer Pump Control	99A	-	YE	WA12	-	-
100A	-	D-GN	WA11	-	-	Run/Crank Ignition Voltage	100A	-	D-GN	WA11	-	-

X202 Instrument Panel Harness to Engine Compartment Harness



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: L02FB-MC

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 375 Series (BK)

Connector Part Information

Harness Type: Engine Compartment

OEM Connector: L02MB-MC

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 375 Series (BK)

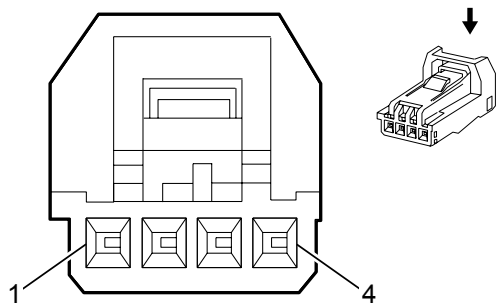
Terminal Part Information

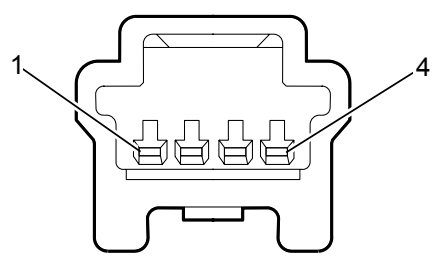
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X202 Instrument Panel Harness to Engine Compartment Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	WH	DA03	-	-	Battery Positive Voltage	1	-	WH	DA03	-	-
2	-	RD	PS01	-	-	Battery Positive Voltage	2	-	RD	PS01	-	-

X203 Instrument Panel Harness to Cellular Phone Microphone Harness (CWM or UPF)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH04FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.5 Series, Sealed (WH)

Connector Part Information

Harness Type: Cellular Phone Microphone

OEM Connector: TH04MW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way M 025 Series (NA)

Terminal Part Information

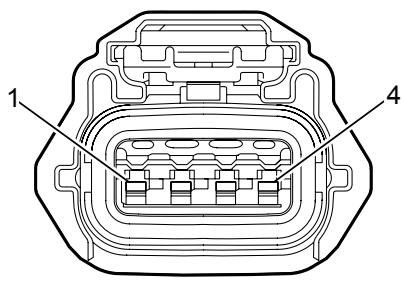
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
-	Not Available	Not Available	Not Available	Service by Harness Assembly - See Part Catalog	Not Available	Not Available	Not Available

X203 Instrument Panel Harness to Cellular Phone Microphone Harness (CWM or UPF)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	-	-	-	-	Not Occupied	1	-	-	-	-	-
2	-	BK	RTE2	-	-	Cellular Telephone Microphone Low Reference	2	-	BARE	RTE2	-	-
3	-	RD	RT07	-	-	Cellular Telephone Microphone Supply Voltage	3	-	RD	RT07	-	-

4	-	D-GN	RT05	-	-	Cellular Telephone Microphone Signal	4	-	BK	RT05	-	-

X204 Instrument Panel Harness to Passenger Instrument Panel Airbag Jumper Harness



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Connector Part Information

Harness Type: Instrument Panel

OEM Connector: RK04FY-BD

Service Connector: Service by Harness Assembly - See Part Catalog

Description: 4-Way F 090 Series, Sealed (YE)

Connector Part Information

Harness Type: Passenger Instrument Panel Airbag Jumper

OEM Connector: Not Available

Service Connector: Service by Harness Assembly - See Part Catalog

Description: 4-Way M (YE)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X204 Instrument Panel Harness to Passenger Instrument Panel Airbag Jumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	YE/BU	FB23	-	-	Passenger IP Module Stage 1 High Control	1	-	RD	FB23	-	-
2	-	YE/BK	FB24	-	-	Passenger IP Module Stage 1 Low Control	2	-	RD	FB24	-	-
3	-	BK/YE	FB25	-	-	Passenger IP Module Stage 2 High Control	3	-	YE	FB25	-	-
4	-	YE	FB26	-	-	Passenger IP Module Stage 2 Low Control	4	-	YE	FB26	-	-

X210 Instrument Panel Harness to Digital Radio Antenna Jumper Harness

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Connector Part Information

Harness Type: Instrument Panel

OEM Connector: Not Available

Service Connector: Service by Harness Assembly - See Part Catalog

Description: 2-Way F

Connector Part Information

Harness Type: Digital Radio Antenna Jumper

OEM Connector: Not Available

Service Connector: Service by Cable Assembly - See Part Catalog

Description: 2-Way M

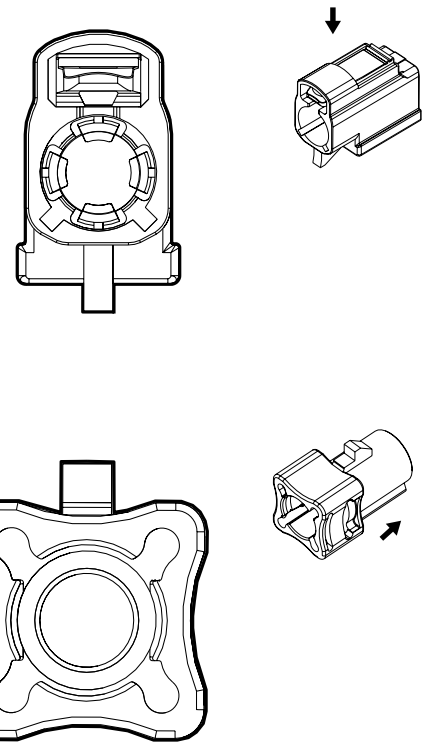
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X210 Instrument Panel Harness to Digital Radio Antenna Jumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	BK	-	-	-	Antenna Amplifier ON Signal	1	-	BK	-	-	-
2	-	BK	-	-	-	AM/FM Antenna Signal	2	-	BK	-	-	-

X211 Instrument Panel Harness COAX to Satellite Antenna Harness COAX (CWM)



Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: Not Available

Service Connector: Service by Cable Assembly - See Part Catalog

Description: 1-Way F Coax Type

Connector Part Information

Harness Type: XM Radio Antenna Coax

OEM Connector: Not Available

Service Connector: Service by Cable Assembly - See Part Catalog

Description: 1-Way M Coax Type

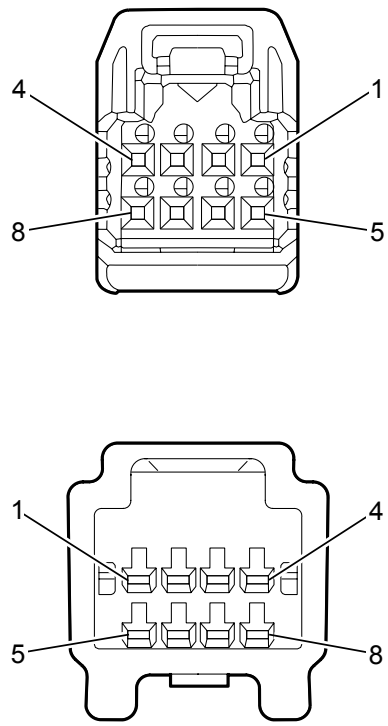
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X211 Instrument Panel Harness COAX to Satellite Antenna Harness COAX (CWM)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	Coax	-	-	-	Coaxial Antenna XM Signal	1	-	Coax	-	-	-

X300 Body Harness to Passenger Seat Harness



Connector Part Information

Harness Type: Body

OEM Connector: TH08FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 025 Series (NA)

Connector Part Information

Harness Type: Passenger Seat

OEM Connector: TH08MW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way M 025 Series (NA)

Terminal Part Information

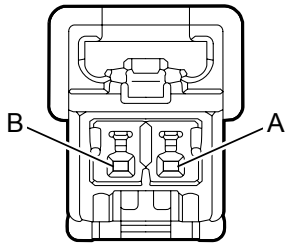
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X300 Body Harness to Passenger Seat Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	RD/BU	FB17	-	-	Run/Crank Ignition Voltage	1	-	VT	FB17	-	-
2	-	-	-	-	-	Not Occupied	2	-	-	-	-	-
3	-	D-BU	FB02	-	-	Occupant Sensor Serial Data	3	-	D-BU	FB02	-	-
4	-	BK/OG	FBE5	-	-	Ground	4	-	BK	FBE5	-	-
5	-	-	-	-	-	Not Occupied	5	-	-	-	-	-

6	-	WH/RD	FB18	-	-	K-Line Diagnostic Serial Data	6	-	WH	FB18	-	-
7	-	WH/GN	FB07	-	-	Passenger Seat Belt Switch Signal	7	-	YE	FB07	-	-
8	-	BK	FBE3	-	-	Ground	8	-	BN	FBE3	-	-

X301 Body Harness to Passenger Seat Side Air Bag Harness



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Connector Part Information

Harness Type: Body

OEM Connector: TH02FY-1V-BD

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F, 040 Series (YE)

Connector Part Information

Harness Type: Passenger Seat Side Air Bag

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M (YE)

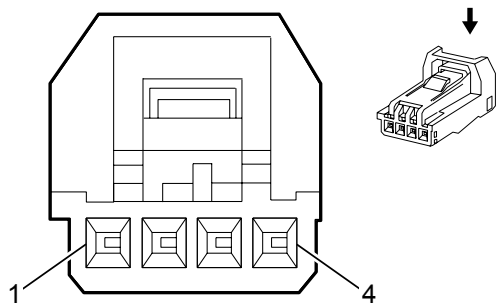
Terminal Part Information

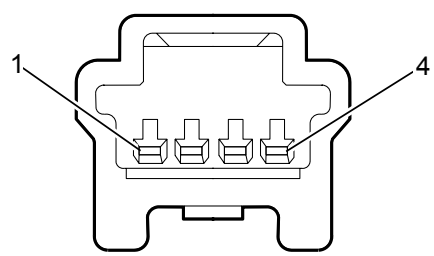
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X301 Body Harness to Passenger Seat Side Air Bag Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	-	WH	FB30	-	-	Passenger Side Impact Module Low Control	A	-	YE	FB30	-	-
B	-	D-GN	FB29	-	-	Passenger Side Impact Module High Control	B	-	YE/BK	FB29	-	-

X302 Right Sliding Door Harness to Body Harness





Connector Part Information

Harness Type: Right Sliding Door

OEM Connector: TH04FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.5 Series, Sealed (WH)

Connector Part Information

Harness Type: Body

OEM Connector: TH04MW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way M 025 Series (NA)

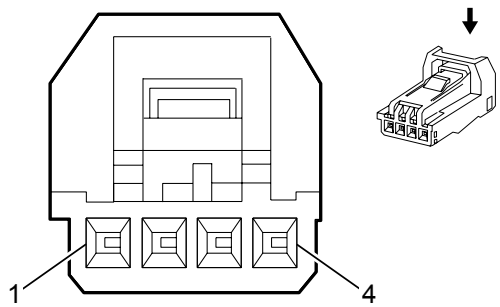
Terminal Part Information

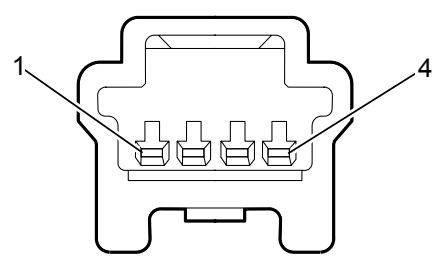
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X302 Right Sliding Door Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	-	-	-	-	Not Occupied	1	-	-	-	-	-
2	-	L-GN	PD15	-	-	Right Sliding Door Ajar Switch Signal	2	-	L-GN	PD15	-	-
3-4	-	-	-	-	-	Not Occupied	3-4	-	-	-	-	-

X303 Left Sliding Door Harness to Body Harness





Connector Part Information

Harness Type: Left Sliding Door

OEM Connector: TH04FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.5 Series, Sealed (WH)

Connector Part Information

Harness Type: Body

OEM Connector: TH04MW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way M 025 Series, (NA)

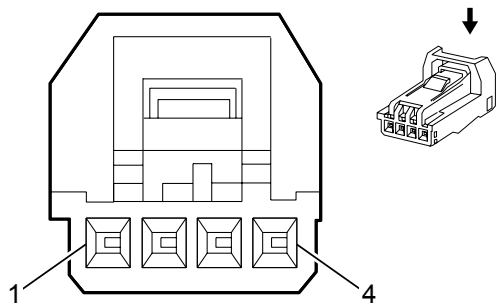
Terminal Part Information

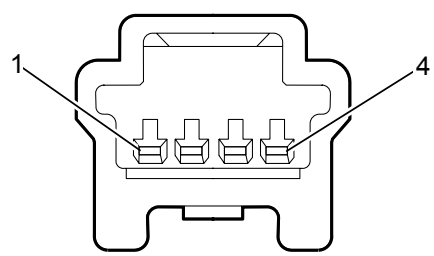
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X303 Left Sliding Door Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	-	-	-	-	Not Occupied	1	-	-	-	-	-
2	-	L-GN	PD16	-	-	Left Sliding Door Ajar Switch Signal	2	-	D-GN	PD16	-	-
3-4	-	-	-	-	-	Not Occupied	3-4	-	-	-	-	-

X304 Headliner Harness to Body Harness





Connector Part Information

Harness Type: Headliner

OEM Connector: TH04FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.5 Series, Sealed (WH)

Connector Part Information

Harness Type: Body

OEM Connector: TH04MW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way M 025 Series (NA)

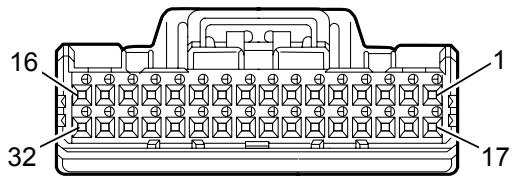
Terminal Part Information

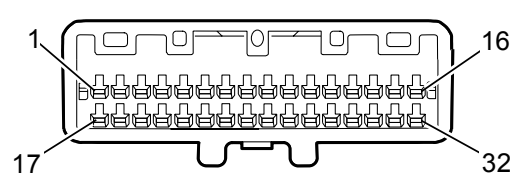
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X304 Headliner Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	YE	LG01	-	-	Interior Lamp Wake Up Signal	1	-	D-BU	LG01	-	-
2	-	BN	LG02	-	-	Interior Lamp Output Signal	2	-	BN	LG02	-	-
3-4	-	-	-	-	-	Not Occupied	3-4	-	-	-	-	-

X305 Instrument Panel Harness to Body Harness





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH32FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 32-Way F 1.6 Series (NA)

Connector Part Information

Harness Type: Body

OEM Connector: TH32MW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 32-Way M 025 Series (NA)

Terminal Part Information

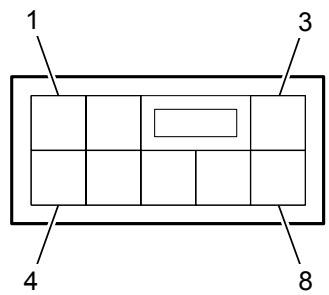
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

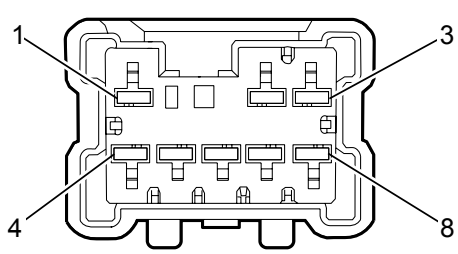
X305 Instrument Panel Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	D-GN	MP11	-	-	Right Rear Tire Pressure Receiver Serial Data	1	-	D-GN	MP11	-	-
2	-	D-BU	MP12	-	-	Right Rear Tire Pressure Receiver Signal	2	-	D-BU	MP12	-	-
3	-	L-BU	MP13	-	-	Right Rear Tire Pressure Receiver Supply Voltage	3	-	L-BU	MP13	-	-
4	-	L-GN	MP14	-	-	Right Rear Tire	4	-	L-GN	MP14	-	-

4	-	L-GN	MP14	-	-	Right Rear Tire Pressure Receiver Low Reference	4	-	L-GN	MP14	-	-
5	-	BN	MA05	-	-	Fuel Level Sensor Signal	5	-	BN	MA05	-	-
6	-	-	-	-	-	Not Occupied	6	-	-	-	-	-
7	-	GY	MA16	-	-	Fuel Level Sensor Low Reference	7	-	GY	MA16	-	-
8	-	PU	LT02	-	-	Tail Lamps Relay Supply Voltage	8	-	PU	LT02	-	-
9	-	-	-	-	-	Not Occupied	9	-	-	-	-	-
10	-	D-GN	LR04	-	-	Backup Lamp Supply Voltage Signal	10	-	YE	LR04	-	-
11-14	-	-	-	-	-	Not Occupied	11-14	-	-	-	-	-
15	-	YE	RG05	-	UVC	Camera Signal (-)	15	-	YE	RG05	-	UVC
16	-	D-GN	RG04	-	UVC	Camera 6 Volt Supply Voltage	16	-	D-GN	RG04	-	UVC
17	-	D-BU	MP15	-	UVC	Left Rear Tire Pressure Receiver Serial Data	17	-	D-BU	MP15	-	UVC
18	-	PK	MP16	-	-	Left Rear Tire Pressure Receiver Signal	18	-	PK	MP16	-	UVC
19	-	GY	MP17	-	-	Left Rear Tire Pressure Receiver Supply Voltage	19	-	GY	MP17	-	-
20	-	VT	MP18	-	-	Left Rear Tire Pressure Receiver Low Referencel	20	-	VT	MP18	-	-
21	-	OG	MA11	-	-	Driver Seat Belt Switch Signal	21	-	OG	MA11	-	-
22-23	-	-	-	-	-	Not Occupied	22-23	-	-	-	-	-
24	-	WH	LD09	-	-	Right Turn Signal Lamp Supply Voltage	24	-	WH	LD09	-	-
25	-	VT	LD10	-	-	Left Turn Signal Lamp Supply Voltage	25	-	L-GN	LD10	-	-
26-28	-	-	-	-	-	Not Occupied	26-28	-	-	-	-	-
29	-	D-BU	LG01	-	-	Interior Lamp Wake Up Signal	29	-	D-BU	LG01	-	-
30	-	BN	LG02	-	-	Interior Lamp Output Signal	30	-	BN	LG02	-	-
31	-	BK	RGE1	-	UVC	Low Reference	31	-	BARE	RGE1	-	UVC
32	-	D-BU	RG06	-	UVC	Camera Signal (+)	32	-	D-BU	RG06	-	UVC

X306 Instrument Panel Harness to Body Harness





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: NS08FW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 250 Series (WH)

Connector Part Information

Harness Type: Body

OEM Connector: NS08MW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way M 090 Series (NA)

Terminal Part Information

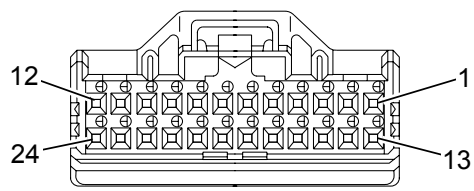
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

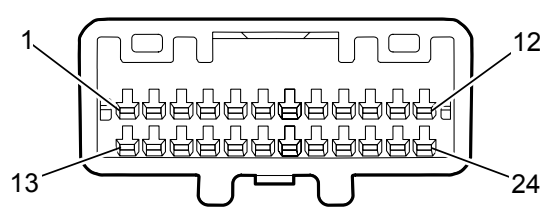
X306 Instrument Panel Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	YE	AB40	-	-	Engine Controls Ignition Relay Supply Voltage	1	-	YE	AB40	-	-
2	-	OG	AB41	-	-	EVAP Canister Vent Solenoid Control	2	-	OG	AB41	-	-
3	-	RD	LS02	-	-	Stop Lamp Supply Voltage	3	-	RD	LS02	-	-
4	-	D-BU	PD24	-	-	Left Sliding Door Lock Motor Lock Control	4	-	D-BU	PD24	-	-

5	-	YE	PD27	-	-	Rear Cargo Door Lock Motor Unlock Control	5	-	YE	PD27	-	-
6	-	D-BU	PD26	-	-	Rear Cargo Door Lock Motor Lock Control	6	-	D-BU/WH	PD26	-	-
7	-	RD	GA01	-	ATG	Accessory Relay Supply Voltage	7	-	RD/BU	GA01	-	ATG
8	-	-	-	-	-	Not Occupied	8	-	-	-	-	-

X307 Instrument Panel Harness to Body Harness





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH24FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 24-Way F 025 Series (NA)

Connector Part Information

Harness Type: Body

OEM Connector: TH24MW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 24-Way M 0.64 Series (NA)

Terminal Part Information

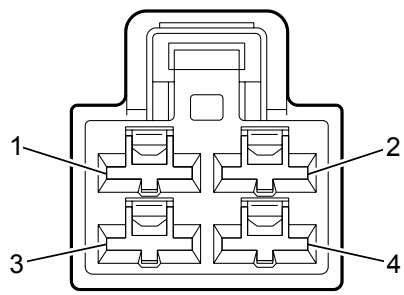
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

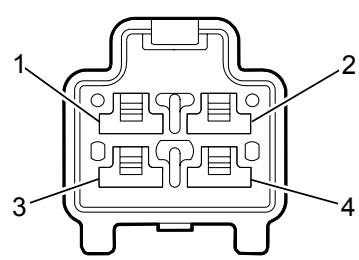
X307 Instrument Panel Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	BK	AC82	-	-	Sensor Low Reference	1	-	BK	AC82	-	-
2	-	L-GN	AC81	-	-	EVAP Emission Pressure Sensor Signal	2	-	L-GN	AC81	-	-
3	-	BN	AC80	-	-	Sensor 5 Volt Reference	3	-	BN	AC80	-	-
4	-	D-BU	BS28	-	-	Wheel Speed Sensor Low Reference Right Rear	4	-	D-BU	BS28	-	-

5	-	GY	BS29	-	-	Wheel Speed Sensor Signal Right Rear	5	-	PU	BS29	-	-
6	-	WH	BS30	-	-	Wheel Speed Sensor Signal Left Rear	6	-	WH	BS30	-	-
7	-	RD	BS31	-	-	Wheel Speed Sensor Signal Left Rear	7	-	RD	BS31	-	-
8-9	-	-	-	-	-	Not Occupied	8-9	-	-	-	-	-
10	-	GY	FD19	-	UD7	Right Rear Corner Object Sensor Signal	10	-	GY	FD19	-	UD7
11	-	L-GN	FD16	-	UD7	Right Rear Middle Object Sensor Signal	11	-	L-GN	FD16	-	UD7
12	-	OG	FD13	-	UD7	Left Rear Middle Object Sensor Signal	12	-	OG	FD13	-	UD7
13	-	D-BU	AB43	-	-	Fuel Temperature Signal	13	-	D-BU	AB43	-	-
14	-	-	-	-	-	Not Occupied	14	-	-	-	-	-
15	-	D-BU	FB17	-	-	Run/Crank Ignition Voltage	15	-	RD/BU	FB17	-	-
16	-	GY	FB18	-	-	K-Line Diagnostic Serial Data	16	-	WH/RD	FB18	-	-
17	-	BN	PD13	-	-	Driver Door Ajar Switch Signal	17	-	L-GN	PD13	-	-
18	-	L-BU	PD14	-	-	Passenger Door Ajar Switch Signal	18	-	L-BU	PD14	-	-
19	-	L-GN	PD15	-	-	Right Sliding Door Ajar Switch Signal	19	-	L-GN	PD15	-	-
20	-	GY	PD16	-	-	Left Sliding Door Ajar Switch Signal	20	-	GY	PD16	-	-
21	-	WH	PD40	-	-	Rear Cargo Door Ajar Switch Signal	21	-	WH	PD40	-	-
22	-	PK	FD10	-	UD7	Left Rear Corner Object Sensor Signal	22	-	PK	FD10	-	UD7
23	-	YE	FD09	-	UD7	Object Sensor Low Reference-	23	-	YE	FD09	-	UD7
24	-	L-GN/BK	FD08	-	UD7	Object Sensor Supply Voltage	24	-	L-GN/BK	FD08	-	UD7

X308 Instrument Panel Harness to Body Harness





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: M04FW-LC

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 250 Series (WH)

Connector Part Information

Harness Type: Body

OEM Connector: M04MW-LC

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way M 250 Series (WH)

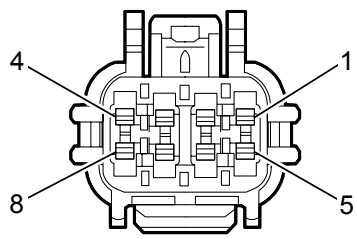
Terminal Part Information

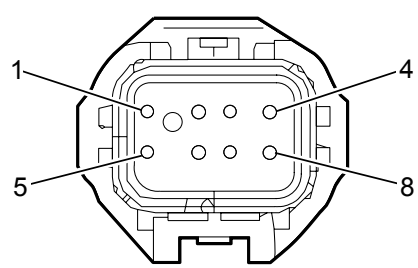
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X308 Instrument Panel Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	BN	NA01	-	-	Rear Defogger Relay Supply Voltage	1	-	RD/WH	NA01	-	-
2	-	-	-	-	-	Not Occupied	2	-	-	-	-	-
3	-	D-GN	AC20	-	-	Fuel Pump Relay Supply Voltage	3	-	D-GN	AC20	-	-
4	-	-	-	-	-	Not Occupied	4	-	-	-	-	-

X400 Rear Jumper Harness to Body Harness (UD7)





Connector Part Information

Harness Type: Rear Jumper

OEM Connector: RK08FGY

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 040 Series, Sealed (L-GY)

Connector Part Information

Harness Type: Body

OEM Connector: RK08MGY

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way M 040 Series, Sealed (L-GY)

Terminal Part Information

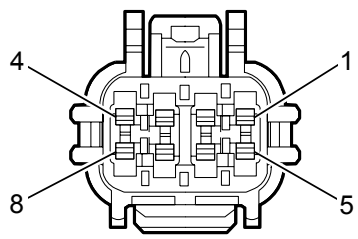
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

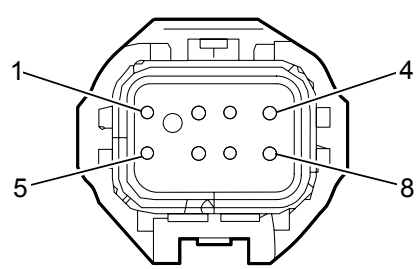
X400 Rear Jumper Harness to Body Harness (UD7)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	YE	FD09	-	-	Object Sensor Low Reference	1	-	YE	FD09	-	-
2	-	PK	FD10	-	-	Left Rear Corner Object Sensor Signal	2	-	PK	FD10	-	-
3	-	OG	FD13	-	-	Left Rear Middle Object Sensor Signal	3	-	OG	FD13	-	-
4	-	-	-	-	-	Not Occupied	4	-	-	-	-	-
5	-	L-GN/BK	FD08	-	-	Object Sensor Supply	5	-	L-GN/BK	FD08	-	-

						Voltage						
6	-	L-GN	FD16	-	-	Right Rear Middle Object Sensor Signal	6	-	L-GN	FD16	-	-
7	-	GY	FD19	-	-	Right Rear Corner Object Sensor Signal	7	-	GY	FD19	-	-
8	-	-	-	-	-	Not Occupied	8	-	-	-	-	-

X401 Rear Bumper Harness to Rear Jumper Harness (UD7)





Connector Part Information

Harness Type: Rear Bumper

OEM Connector: RK08FGY

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 040 Series, Sealed (L-GY)

Connector Part Information

Harness Type: Rear Jumper

OEM Connector: RK08MGY

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way M 040 Series, Sealed (L-GY)

Terminal Part Information

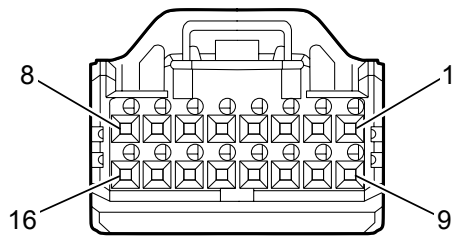
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

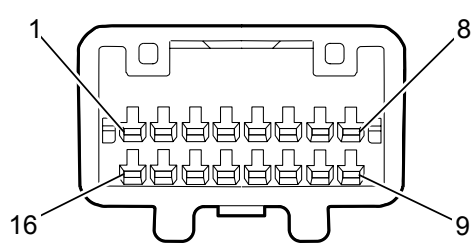
X401 Rear Bumper Harness to Rear Jumper Harness (UD7)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	YE	FD09	-	-	Object Sensor Low Reference	1	-	YE	FD09	-	-
2	-	PK	FD10	-	-	Left Rear Corner Object Sensor Signal	2	-	PK	FD10	-	-
3	-	OG	FD13	-	UD7	Left Rear Middle Object Sensor Signal	3	-	OG	FD13	-	-
4	-	-	-	-	-	Not Occupied	4	-	-	-	-	-
5	-	L-GN/BK	FD08	-	-	Object Sensor Supply	5	-	L-GN/BK	FD08	-	-

						Voltage						
6	-	L-GN	FD16	-	-	Right Rear Middle Object Sensor Signal	6	-	L-GN	FD16	-	-
7	-	GY	FD19	-	-	Right Rear Corner Object Sensor Signal	7	-	GY	FD19	-	-
8	-	-	-	-	-	Not Occupied	8	-	-	-	-	-

X402 Back Door Harness to Body Harness





Connector Part Information

Harness Type: Back Door

OEM Connector: TH16FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 16-Way F 025 Series (NA)

Connector Part Information

Harness Type: Body

OEM Connector: TH16MW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 16-Way M 025 Series (NA)

Terminal Part Information

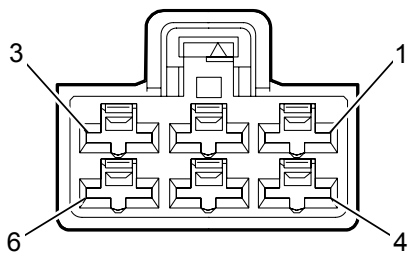
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

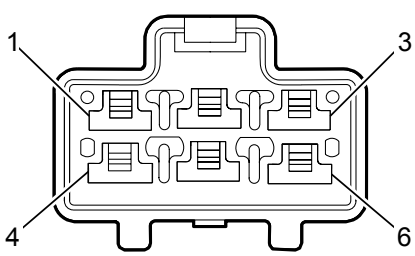
X402 Back Door Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	D-GN	RG04	-	UVC	Camera 6 Volt Supply Voltage	1	-	D-GN	RG04	-	UVC
2	-	YE	RG05	-	UVC	Camera Signal (-)	2	-	YE	RG05	-	UVC
3-4	-	-	-	-	-	Not Occupied	3-4	-	-	-	-	-
5	-	WH	PD40	-	-	Rear Cargo Door Ajar Switch Signal	5	-	WH	PD40	-	-
6	-	OG	LL01	-	-	Tail Lamps Relay Supply Voltage	6	-	PU	LL01	-	-

7-8	-	-	-	-	-	Not Occupied	7-8	-	-	-	-	-
9	-	D-BU	RG06	-	UVC	Camera Signal (+)	9	-	D-BU	RG06	-	UVC
10	-	BARE	RGE1	-	UVC	Camera Shield Extension	10	-	BARE	RGE1	-	UVC
11-14	-	-	-	-	-	Not Occupied	11-14	-	-	-	-	-
15	-	RD	LS04	-	-	Stop Lamp Supply Voltage	15	-	RD	LS04	-	-
16	-	-	-	-	-	Not Occupied	16	-	-	-	-	-

X403 Back Door Harness to Body Harness





Connector Part Information

Harness Type: Back Door

OEM Connector: M06FW-LC

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 250 Series (NA)

Connector Part Information

Harness Type: Body

OEM Connector: M06MW-LC

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way M 250 Series (NA)

Terminal Part Information

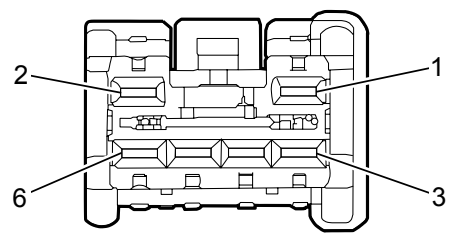
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

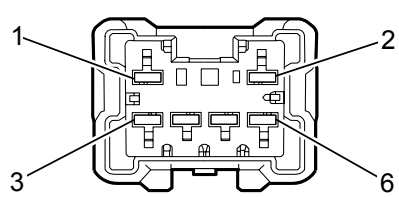
X403 Back Door Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	-	-	-	-	Not Occupied	1	-	-	-	-	-
2	-	D-BU	PD26	-	-	Rear Cargo Door Lock Motor Lock Control	2	-	D-BU/WH	PD26	-	-
3	-	-	-	-	-	Not Occupied	3	-	-	-	-	-
4	-	BK	E007	-	-	Ground	4	-	BK	E007	-	-
5	-	YE	PD27	-	-	Rear Cargo Door Lock Motor Unlock Control	5	-	YE	PD27	-	-

6	-	RD/WH	NA01	-	-	Rear Defogger Relay Supply Voltage	6	-	RD/WH	NA01	-	-

X410 Left Tail Lamp Assembly Harness to Body Harness





Connector Part Information

Harness Type: Left Tail Lamp Assembly

OEM Connector: NS06FW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 2.3 Series (WH)

Connector Part Information

Harness Type: Body

OEM Connector: NS06MW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way M 090 Series (NA)

Terminal Part Information

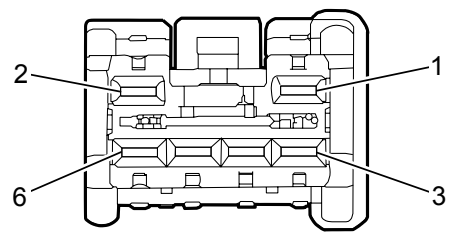
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

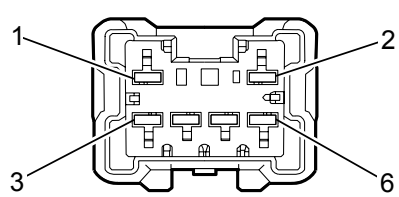
X410 Left Tail Lamp Assembly Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	WH	LR03	-	-	Backup Lamp Supply Voltage Signal	1	-	YE	LR03	-	-
2	-	BK	LTE1	-	-	Ground	2	-	BK	LTE1	-	-
3	-	-	-	-	-	Not Occupied	3	-	-	-	-	-
4	-	D-GN	LD10	-	-	Left Turn Signal Lamp Supply Voltage	4	-	L-GN	LD10	-	-
5	-	RD	LS03	-	-	Stop Lamp Supply Voltage	5	-	RD	LS03	-	-

6	-	GY	LT03	-	-	Tail Lamps Relay Supply Voltage	6	-	PU	LT03	-	-

X420 Right Tail Lamp Assembly Harness to Body Harness





Connector Part Information

Harness Type: Right Tail Lamp Assembly

OEM Connector: NS06FW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 2.3 Series (WH)

Connector Part Information

Harness Type: Body

OEM Connector: NS06MW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way M 090 Series (NA)

Terminal Part Information

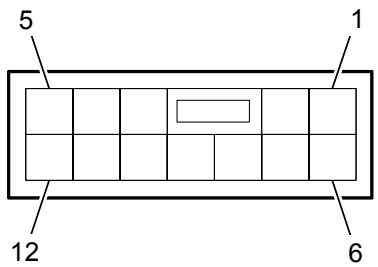
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

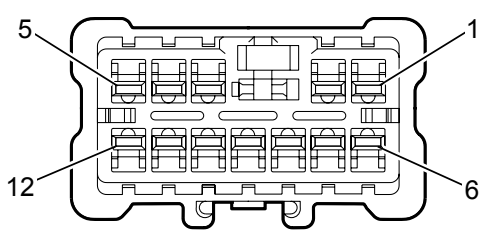
X420 Right Tail Lamp Assembly Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	WH	LR04	-	-	Backup Lamp Supply Voltage Signal	1	-	YE	LR04	-	-
2	-	BK	LTE2	-	-	Ground	2	-	BK	LTE2	-	-
3	-	-	-	-	-	Not Occupied	3	-	-	-	-	-
4	-	D-GN	LD09	-	-	Right Turn Signal Lamp Supply Voltage	4	-	WH	LD09	-	-
5	-	RD	LS02	-	-	Stop Lamp Supply Voltage	5	-	RD	LS02	-	-

6	-	GY	LT02	-	-	Tail Lamps Relay Supply Voltage	6	-	PU	LT02	-	-

X500 Driver Door Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Driver Door

OEM Connector: NS12FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 12-Way F (WH)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: NS12MW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 12-Way M (WH)

Terminal Part Information

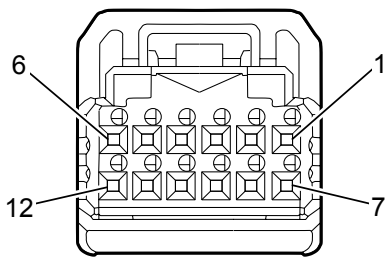
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

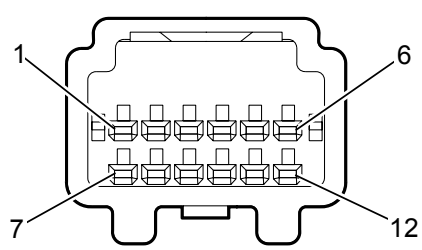
X500 Driver Door Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	BK	PAE1	-	-	Ground	1	-	BK	PAE1	-	-
2	-	WH	PD17	-	-	Door Lock Key Switch Lock Signal	2	-	PK	PD17	-	-
3	-	BN	PD18	-	-	Door Lock Motor Lock Control	3	-	D-BU	PD18	-	-
4	-	WH	PD19	-	-	Driver Door Lock Motor Unlock Control	4	-	D-GN	PD19	-	-
5	-	PU	PA01	-	-	Power Window Supply	5	-	PK	PA01	-	-

						Voltage						
6	-	L-BU	PA20	-	-	Power Window Serial Data	6	-	L-BU	PA20	-	-
7-10	-	-	-	-	-	Not Occupied	8-11	-	-	-	-	-
11	-	WH	PD28	-	-	Door Lock Key Switch Unlock Signal	11	-	BK	PD28	-	-
12	-	D-BU	PA02	-	-	Power Window Ignition Output	12	-	D-BU	PA02	-	-

X501 Driver Door Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Driver Door

OEM Connector: TH12FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 12-Way F, 025 Series (NA)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH12MW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 12-Way M (WH)

Terminal Part Information

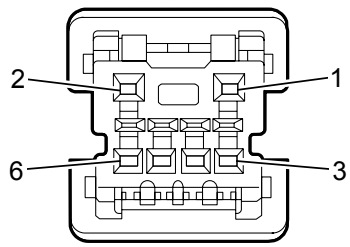
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

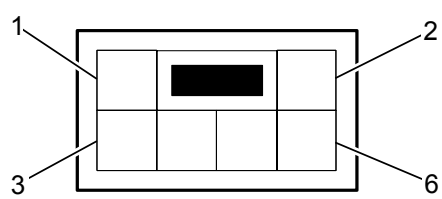
X501 Driver Door Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	PU	PD12	-	-	Driver Door Lock Switch Unlock Signal	1	-	PU	PD12	-	-
2	-	RD	PD11	-	-	Driver Door Lock Switch Lock Signal	2	-	RD	PD11	-	-
3	-	PK	KA05	-	-	Driver Mirror Motor Common Control	3	-	PK	KA05	-	-
4	-	D-GN	KA06	-	-	Driver Mirror Motor Right (+) Left (-) Control	4	-	D-GN	KA06	-	-

5	-	GY	KA07	-	-	Driver Mirror Motor Up (+) Down (-) Control	5	-	GY	KA07	-	-
6-9	-	-	-	-	-	Not Occupied	6-9	-	-	-	-	-
10	-	L-BU	KC03	-	–	Mirror Heating Element Supply Voltage	10	-	L-BU	KC03	-	–
11	-	GY/D-GN	RA06	-	-	Left Front Speaker (+)	11	-	D-BU	RA06	-	-
12	-	GY	RA07	-	–	Left Front Speaker (-)	12	-	GY	RA07	-	-

X502 Driver Door Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Driver Door

OEM Connector: TK06FG-Y

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 1.5 YESC Kaizen Series (YE)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TK06MG-Y-BD

Service Connector: Service by Harness - See Part Catalog

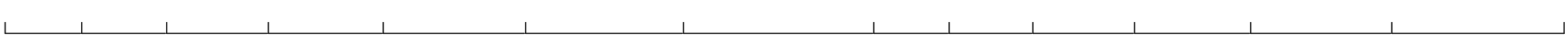
Description: 6-Way M (YE)

Terminal Part Information

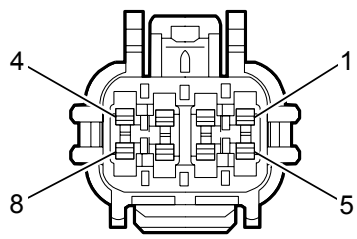
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

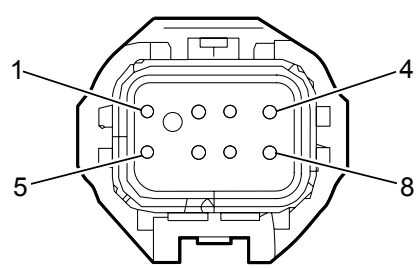
X502 Driver Door Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1-2	-	-	-	-	-	Not Occupied	1-2	-	-	-	-	-
3	-	OG	FB53	-	-	Left Front Side Impact Sensing Module Low Reference	3	-	RD	FB53	-	-
4	-	WH	FB54	-	-	Left Front Side Impact Sensing Module Signal	4	-	RD	FB54	-	-
5	-	BARE	FEE5	-	-	Ground	5	-	BK	FEE5	-	-
6	-	-	-	-	-	Not Occupied	6	-	-	-	-	-



X510 Driver Door Harness to Driver Outside Rearview Mirror Extension





Connector Part Information

Harness Type: Driver Door

OEM Connector: RK08FGY

Service Connector: Service by Harness Assembly - See Part Catalog

Description: 8-Way F 040 Series, Sealed (L-GY)

Connector Part Information

Harness Type: Driver Outside Rearview Mirror Extension

OEM Connector: RK08MGY

Service Connector: Service by Harness Assembly - See Part Catalog

Description: 8-Way M 040 Series, Sealed (L-GY)

Terminal Part Information

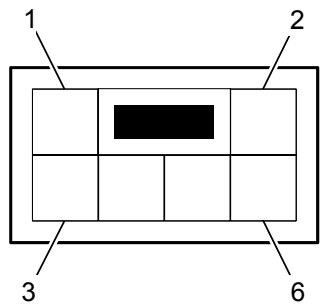
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

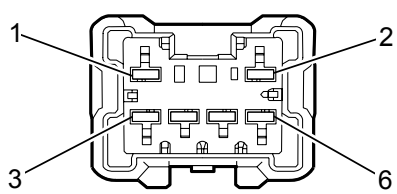
X510 Driver Door Harness to Driver Outside Rearview Mirror Extension

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	BK	KCE3	-	-	Ground	1	-	BK	KCE3	-	-
2	-	L-BU	KC03	-	DE5 or DR6	Mirror Heating Element Supply Voltage	2	-	BK	KC03	-	DE5 or DR6
3-5	-	-	-	-	-	Not Occupied	3-5	-	-	-	-	-
6	-	PK	KA05	-	-	Driver Mirror Motor Common Control	6	-	D-BU	KA05	-	-
7	-	D-GN	KA06	-	-	Driver Mirror Motor Right (-) Left (+) Control	7	-	L-GN	KA06	-	-

8	-	GY	KA07	-	-	Driver Mirror Motor Up (+) Down (-) Control	8	-	YE	KA07	-	-

X600 Passenger Door Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Passenger Door

OEM Connector: NS06FW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 2.3 Series (WH)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: NS06MW-CS

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way M 090 Series (NA)

Terminal Part Information

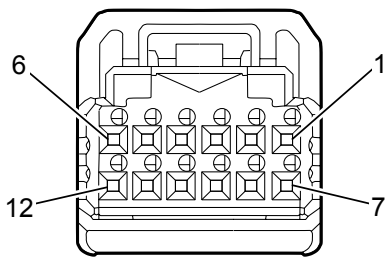
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

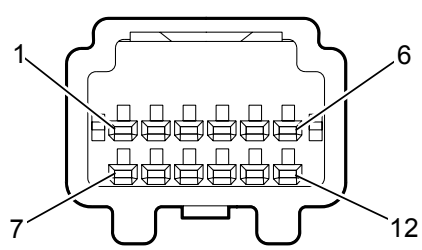
X600 Passenger Door Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	PK	PA17	-	-	Power Window Supply Voltage	1	-	PK	PA17	-	-
2	-	WH	PD21	-	-	Passenger Door Lock Motor Unlock Control	2	-	YE	PD21	-	-
3	-	BK	PAE2	-	-	Ground	3	-	BK	PAE2	-	-
4	-	L-BU	PA20	-	-	Power Window Serial Data	4	-	L-BU	PA20	-	-
5	-	BN	PD20	-	-	Passenger Door Lock	5	-	D-BU	PD20	-	-

						Motor Lock Control						
6	-	-	-	-	-	Not Occupied	6	-	-	-	-	-

X601 Passenger Door Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Passenger Door

OEM Connector: TH12FW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 12-Way F 025 Series (NA)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TH12MW-NH

Service Connector: Service by Harness - See Part Catalog

Description: 12-Way M (NA)

Terminal Part Information

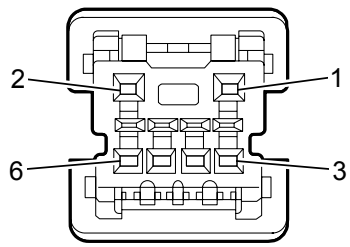
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

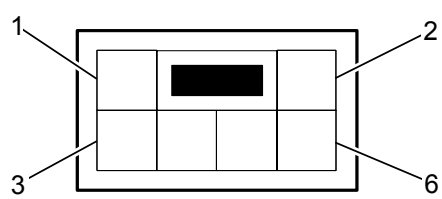
X601 Passenger Door Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	PU	PD30	-	-	Driver Door Lock Switch Unlock Signal	1	-	PU	PD30	-	-
2	-	RD	PD29	-	-	Driver Door Lock Switch Lock Signal	2	-	RD	PD29	-	-
3	-	WH	KA02	-	-	Co-Driver Mirror Motor Common Control	3	-	WH	KA02	-	-
4	-	L-GN	KA03	-	-	Co-Driver Mirror Motor Right (+) Left (-) Control	4	-	L-GN	KA03	-	-

5	-	RD	KA04	-	-	Co-Driver Mirror Motor Up (+) Down (-) Control	5	-	RD	KA04	-	-
6-8	-	-	-	-	-	Not Occupied	6-8	-	-	-	-	-
9	-	BK	KCE2	-	-	Ground	9	-	BK	KCE2	-	-
10	-	L-BU	KC02	-	-	Mirror Heating Element Supply Voltage	10	-	L-BU	KC02	-	-
11	-	D-GN/WH	RA04	-	-	Right Front Speaker (+)	11	-	D-GN	RA04	-	-
12	-	GY	RA05	-	–	Right Front Speaker (-)	12	-	RD	RA05	-	-

X602 Passenger Door Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Passenger Door

OEM Connector: TK06FG-Y

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 1.5 YESC Kaizen Series (YE)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: TK06MG-Y-BD

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way M (YE)

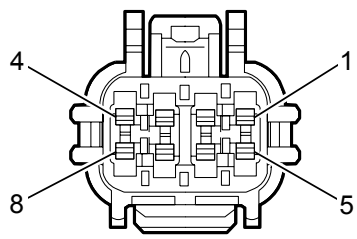
Terminal Part Information

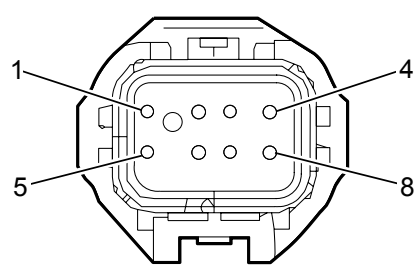
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X602 Passenger Door Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1-3	-	-	-	-	-	Not Occupied	1-3	-	-	-	-	-
4	-	BARE	FEE4	-	-	Ground	4	-	BK	FEE4	-	-
5	-	D-GN	FB52	-	-	Right Front Side Impact Sensing Module Low Reference	5	-	D-GN	FB52	-	-
6	-	RD	FB51	-	-	Right Front Side Impact Sensing Module Signal	6	-	RD	FB51	-	-

X610 Passenger Door Harness to Passenger Outside Rearview Mirror Extension





Connector Part Information

Harness Type: Passenger Door

OEM Connector: RK08FGY

Service Connector: Service by Harness Assembly - See Part Catalog

Description: 8-Way F 040 Series, Sealed (L-GY)

Connector Part Information

Harness Type: Passenger Outside Rearview Mirror Extension

OEM Connector: RK08MGY

Service Connector: Service by Harness Assembly - See Part Catalog

Description: 8-Way M 040 Series, Sealed (L-GY)

Terminal Part Information

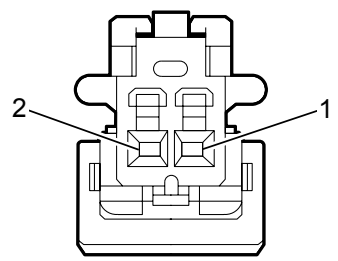
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

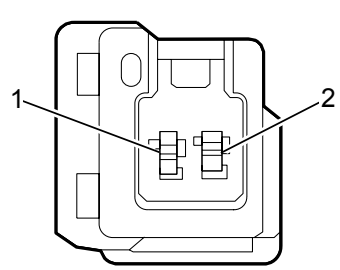
X610 Passenger Door Harness to Passenger Outside Rearview Mirror Extension

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	BK	KCE2	-	-	Ground	1	-	BK	KCE2	-	-
2	-	L-BU	KC02	-	DE5 or DR6	Mirror Heating Element Supply Voltage	2	-	BK	KC02	-	DE5 or DR6
3-5	-	-	-	-	-	Not Occupied	3-5	-	-	-	-	-
6	-	WH	KA02	-	-	Co-Driver Mirror Motor Common Control	6	-	D-BU	KA02	-	-
7	-	L-GN	KA03	-	-	Co-Driver Mirror Motor Right (+) Left (-) Control	7	-	L-GN	KA03	-	-

8	-	RD	KA04	-	-	Co-Driver Mirror Motor Up (+) Down (-) Control	8	-	YE	KA04	-	-

X905 License Plate Harness to Back Door Harness





Connector Part Information

Harness Type: License Plate

OEM Connector: TK02FBR

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 040 Series (BN)

Connector Part Information

Harness Type: Back Door

OEM Connector: TK02MBR-P

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 1.0 Series (BN)

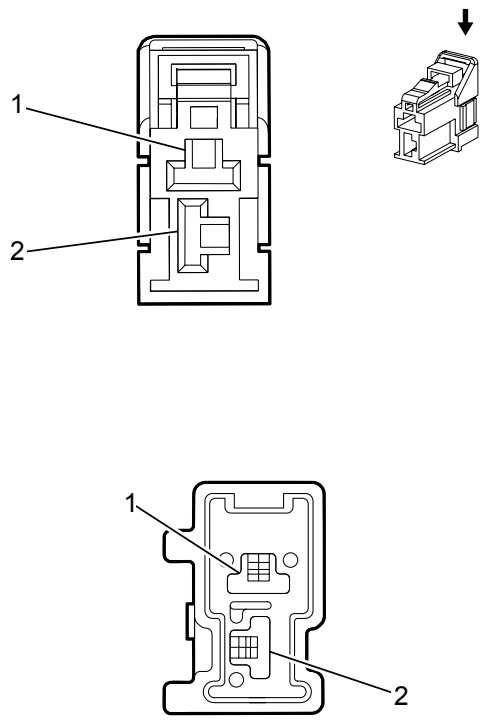
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X905 License Plate Harness to Back Door Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	VT	LL01	-	-	Tail Lamps Relay Supply Voltage	1	-	OG	LL01	-	-
2	-	BK	LLE1	-	-	Ground	2	-	BK	LLE1	-	-

X906 Rear Defogger Harness to Back Door Harness



Connector Part Information

Harness Type: Rear Defogger

OEM Connector: M02FW-LC

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 250 Series (NA)

Connector Part Information

Harness Type: Back Door

OEM Connector: M02MW-LC

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 250 Series (NA)

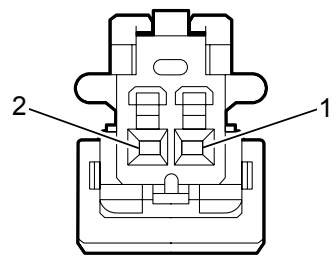
Terminal Part Information

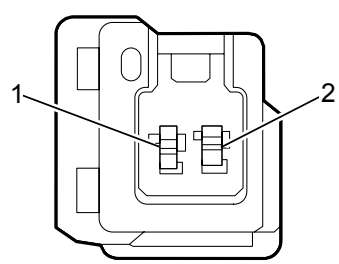
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X906 Rear Defogger Harness to Back Door Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	BK	NAE1	-	-	Ground	1	-	BK	NAE1	-	-
2	-	RD	NA01	-	-	Rear Defogger Relay Supply Voltage	2	-	RD/WH	NA01	-	-

X907 Back Door Extension Harness to Back Door Harness





Connector Part Information

Harness Type: Back Door Extension

OEM Connector: TK02FBR

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 040 Series (BN)

Connector Part Information

Harness Type: Back Door

OEM Connector: TK02MBR-P

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 1.0 Series (BN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
-	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X907 Back Door Extension Harness to Back Door Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	RD	LS04	-	-	Stop Lamp Supply Voltage	1	-	RD	LS04	-	-
2	-	BK	LSE1	-	-	Ground	2	-	BK	LSE1	-	-

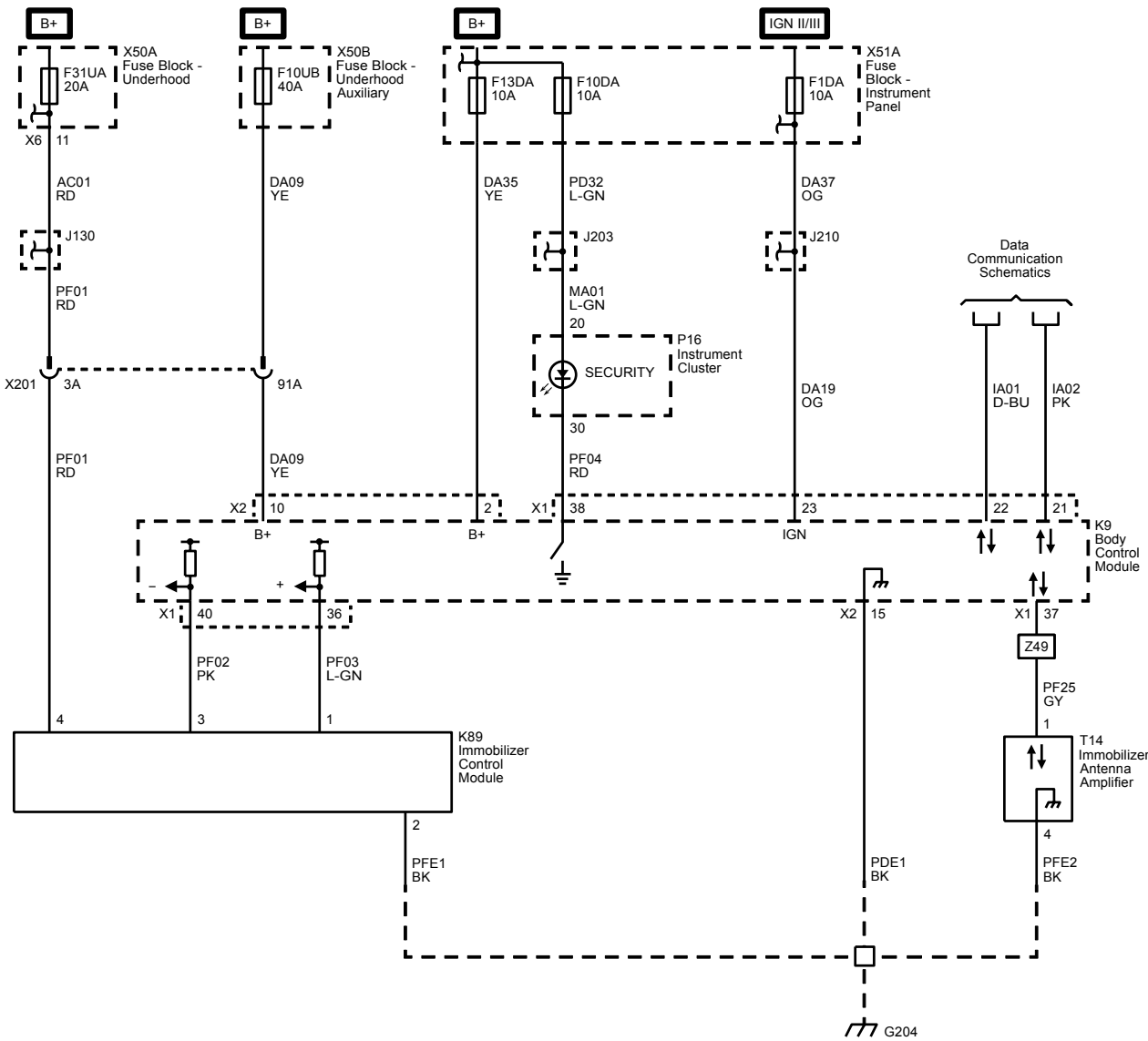
Safety and Security

Immobilizer

Schematic and Routing Diagrams

Immobilizer Schematics

Immobilizer



Description and Operation

Immobilizer Description and Operation

The immobilizer system functions are provided by the body control module (BCM). When an ignition key is inserted into the ignition lock cylinder and the ignition is switched ON, the transponder embedded in the head of the key is energized by the immobilizer antenna amplifier surrounding the ignition lock cylinder. The energized transponder transmits a signal that contains its unique value, which is received by the immobilizer antenna amplifier and then sent to the BCM.

The components of the immobilzer system are as follows:

- Immobilizer antenna amplifier
- BCM
- Ignition key (Transponder)
- Security indicator

Immobilizer Antenna Amplifier

The immobilizer antenna amplifier contains an exciter which is integral with the ignition switch located within the steering column.

The immobilizer antenna amplifier uses the following inputs:

- Battery voltage
- Ground circuit

The immobilizer antenna amplifier uses the following outputs:

- 2 12 V signals to the BCM

When an ignition key is inserted into the ignition lock cylinder and the ignition is switched ON, the transponder embedded in the head of the key is energized by the exciter coils surrounding the ignition lock cylinder. The energized transponder transmits a signal that contains its unique value, which is received by the BCM. The BCM then performs one of the following functions:

- If the transponder value matches the values stored in the BCM memory, the BCM will allow vehicle cranking and starting.
- If the transponders unique value does not match the value stored in the BCM, the BCM will prevent vehicle cranking and starting.
- If the immobilizer antenna amplifier is unable to measure the ignition key transponder value, the immobilizer antenna amplifier will not send any messages to the BCM.

Body Control Module (BCM)

When the body control module (BCM) receives the signal from the immobilizer antenna amplifier, the BCM will allow vehicle starting.

The BCM will disable vehicle starting if any of the following conditions occur:

- The key programming is invalid.
- No passwords are received. There is no communication with the immobilizer antenna amplifier.

The Ignition Key (Transponder)

The ignition key is a standard ignition key with a transponder located in the plastic head of the key. The transponder value is fixed and unable to be changed. The immobilizer system uses the ignition key transponder value to determine if a valid ignition key is being used to start the vehicle. There are approximately 3 trillion possible transponder values. There are no visible electrical contacts.

Security Indicator

The immobilizer system function is indicated by a security indicator in the gauge cluster.

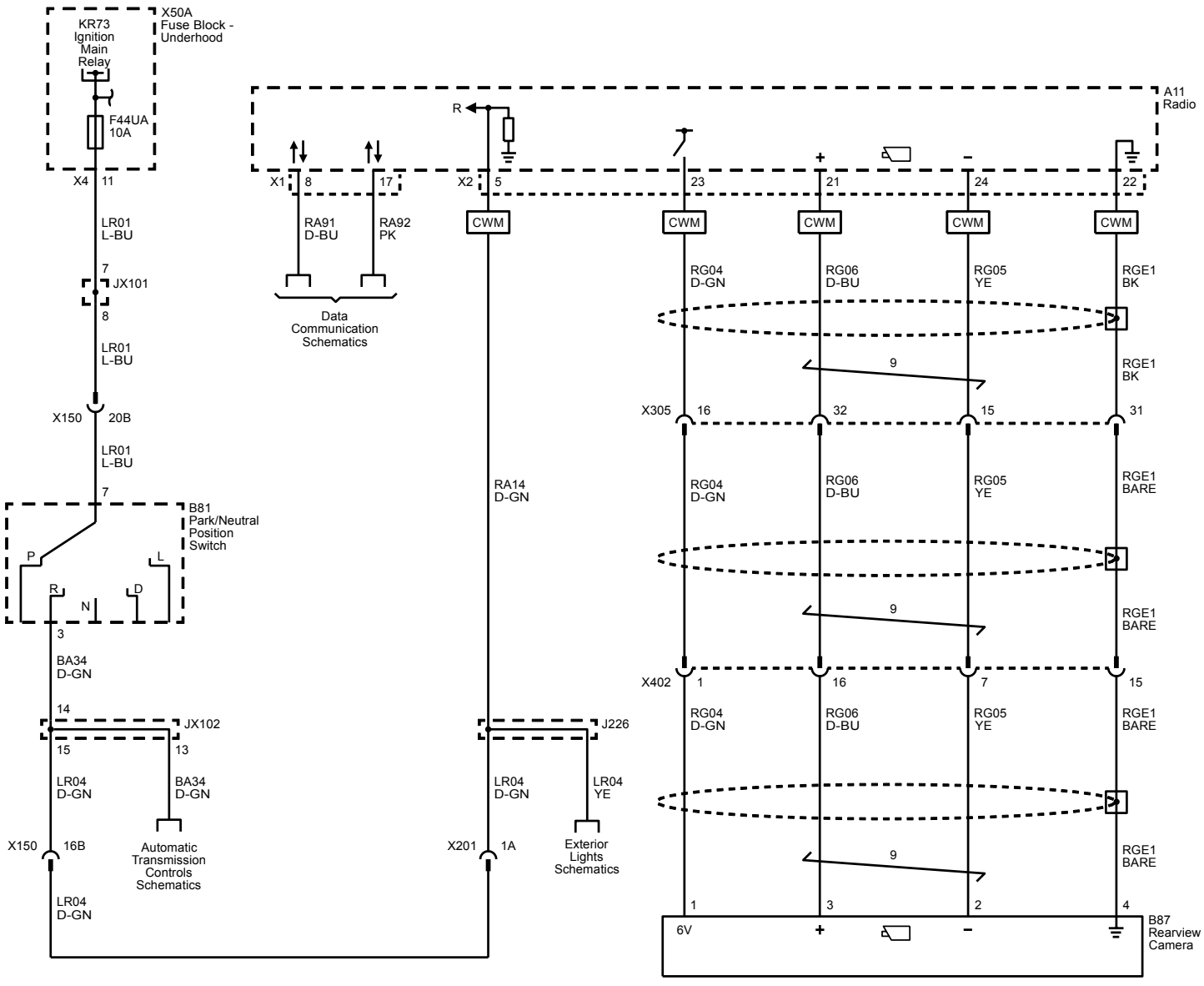
Safety and Security

Object Detection and Pedestrian Protection

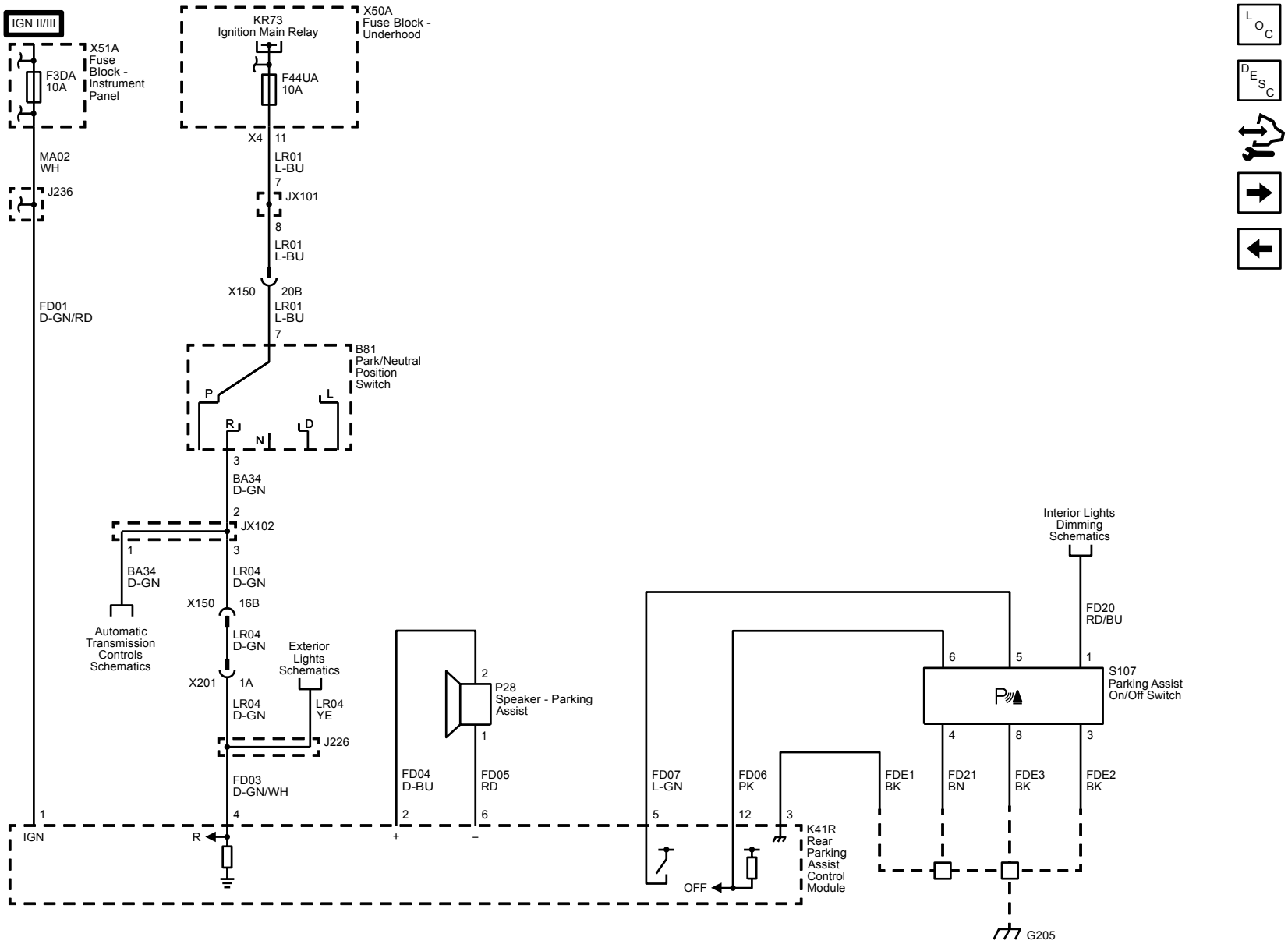
Schematic and Routing Diagrams

Object Detection Schematics

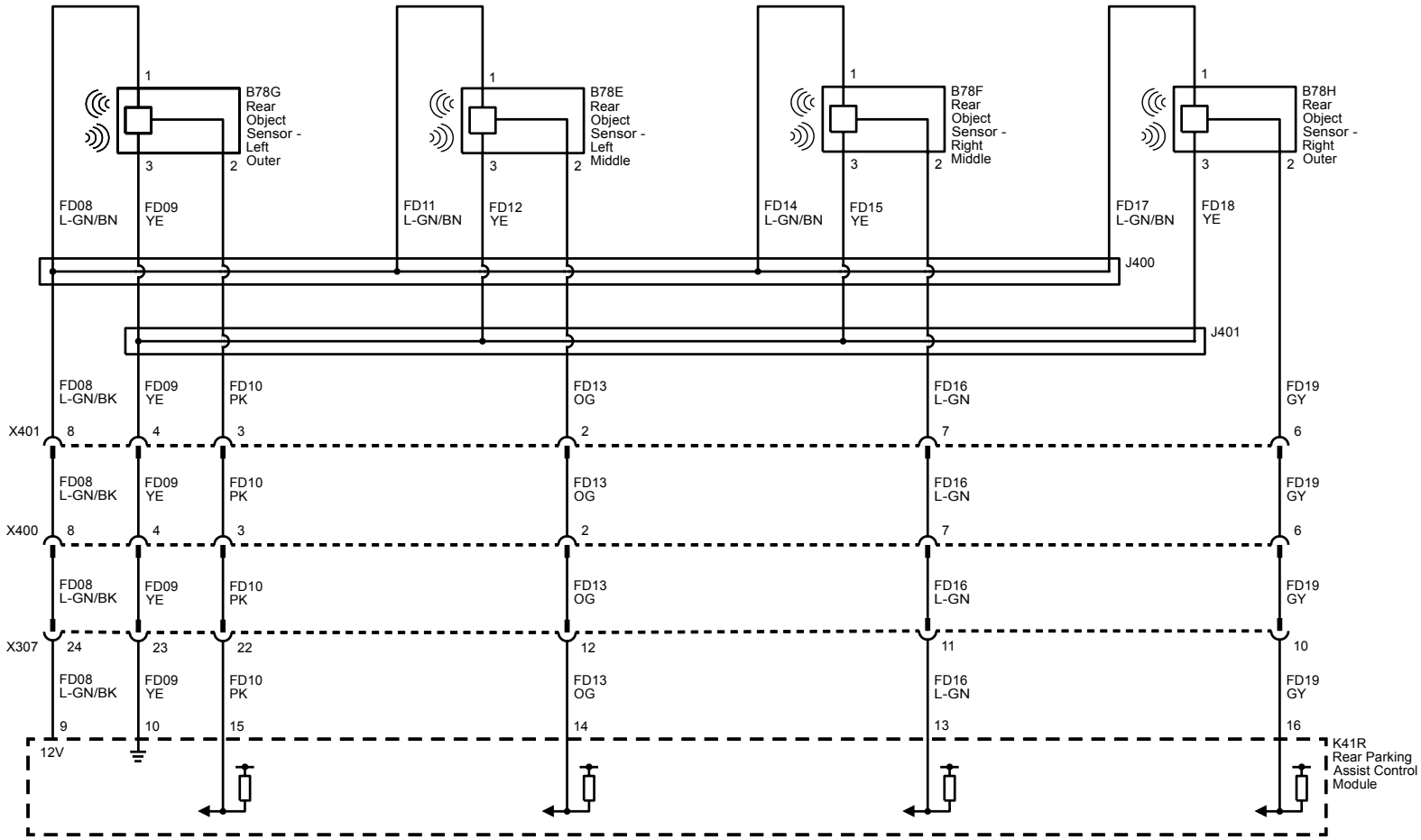
Rearview Camera (UVC)



Rear Parking Assist System (UD7) 1 of 2



Rear Parking Assist System (UD7) 2 of 2



Description and Operation

Parking Assist Description and Operation

With ignition power and ground supplied, transmission in R, and the parking assist switch ON, the park assist system will detect obstacles within 1.8 m (5.9 ft.) of the rear object alarm sensors. The vehicle operator is notified of obstacles by varied rate of tone from the parking assist buzzer depending on distance of obstacle being sensed.

The parking assist system is made up of the following components:

- Parking assist control module
- Rear object alarm sensors
- Parking assist switch
- Parking assist switch indicator
- Parking assist speaker

Parking Assist Control Module

The parking assist control module provides a reference voltage and a low reference to the 4 object alarm sensors. The parking assist control module receives individual signals from each of the 8 sensors and determines the location and distance of an object based on these inputs. When an object is detected, the parking assist control module will power the buzzer creating an audible alert.

Object Alarm Sensors

The object alarm sensors are located in the rear bumper of the vehicle. The sensors are used to determine the distance between an object and the bumper. Each sensor emits an ultrasonic frequency which is reflected off any object located behind the vehicle. These reflections are received by the sensors. The time difference between the emission of the frequency and when the reflection is received is known as sensor echo time, it is used to determine the distance to the object. The sensors report this information to the parking assist control module.

Parking Assist Switch

The parking assist can be activated and deactivated by pressing the parking assist switch. By engaging the reverse gear the parking assist can also be activated. By subsequently pressing the parking assist switch the parking assist can be disabled again.

Parking Assist Switch Indicator

Note: The indicator is illuminated when system is OFF

The indicator in the parking assist switch shows the status of the parking assist. If the lamp is ON, the parking assist is deactivated.

Parking Assist Speaker

Note: When a failure in the system is present, the speaker will not emit sounds when the transmission is in reverse.

The parking assist speaker emits sounds for the status of the parking assist, and for distance related notifications to the driver. This is an actual speaker that emits different tones for distance, as well as when retrieving flash codes.

Parking Assist Operation

When an object is within the measuring range of the sensor, the ultrasonic pulse is reflected and is received by the sending or a neighboring sensor. The sensor converts this signal into a voltage signal and sends this signal to the parking assist control module. The parking assist control module evaluates the received sensor signals. As soon as an object is within the measuring range, the parking assist control module sends a message via CAN-Bus to the radio in order to give out the acoustic distance signal.

The parking assist system can detect objects greater than 7.6 cm (3 in) wide and 25.4 cm (10 in) tall. The system cannot detect objects below the bumper, underneath the vehicle. If an object is detected, The measuring range of the rear object alarm sensors is between 30–250 cm (11.8–98.4 in). From a distance of 250 cm (98.4 in), the acoustic signal is active. The frequency of the beep sound increases with decreasing distance. From a distance less than 30 cm (11.8 in), the sound becomes continuous.

The parking assist control module carries out a self test and monitors the sensors for electrical and mechanical faults. Monitored is the power supply of each sensor and the sensor signals, which need to alter when the vehicle moves. If this is not the case, the sensor is acoustically blocked or faulty. Mud, ice and snow may cause obstruction of the function of the sensors. Besides that the advanced parking assist control module checks whether the correct type of sensor is installed. If any of these tests fails, a DTC is set, the parking assist is deactivated and the parking assist indicator is also deactivated.

Rear Vision Camera Description and Operation

Rear Vision Camera System Operation

The rear vision camera system consists of a video camera located at the rear of the vehicle and the radio.

When the transmission is placed into REVERSE, a 12 volt signal is sent to the radio. This signal indicates to the radio that the vehicle is in reverse and image display is requested. The rearview camera receives ignition voltage and a constant ground to power the camera from the radio. Video signal + and video signal – circuits carry the video image from the rearview camera to the radio. Additionally, the video signal circuits are shielded to prevent any interference which may lead to a loss of video signal resolution and a degraded video image. The shield is provided a ground path by the rear vision camera.

The following conditions may cause a degraded rear vision camera image:

- Ice, snow, or mud has built up on the rear vision camera
- Dark conditions
- Extreme light conditions, such as glare from the sun or the headlights of another vehicle
- Damage to the rear of the vehicle
- Extreme high temperatures or extreme temperature changes

If a malfunction is detected in the system, Service Rear Vision Camera may be displayed on the radio as an indicator to the customer that a problem exists that requires service.

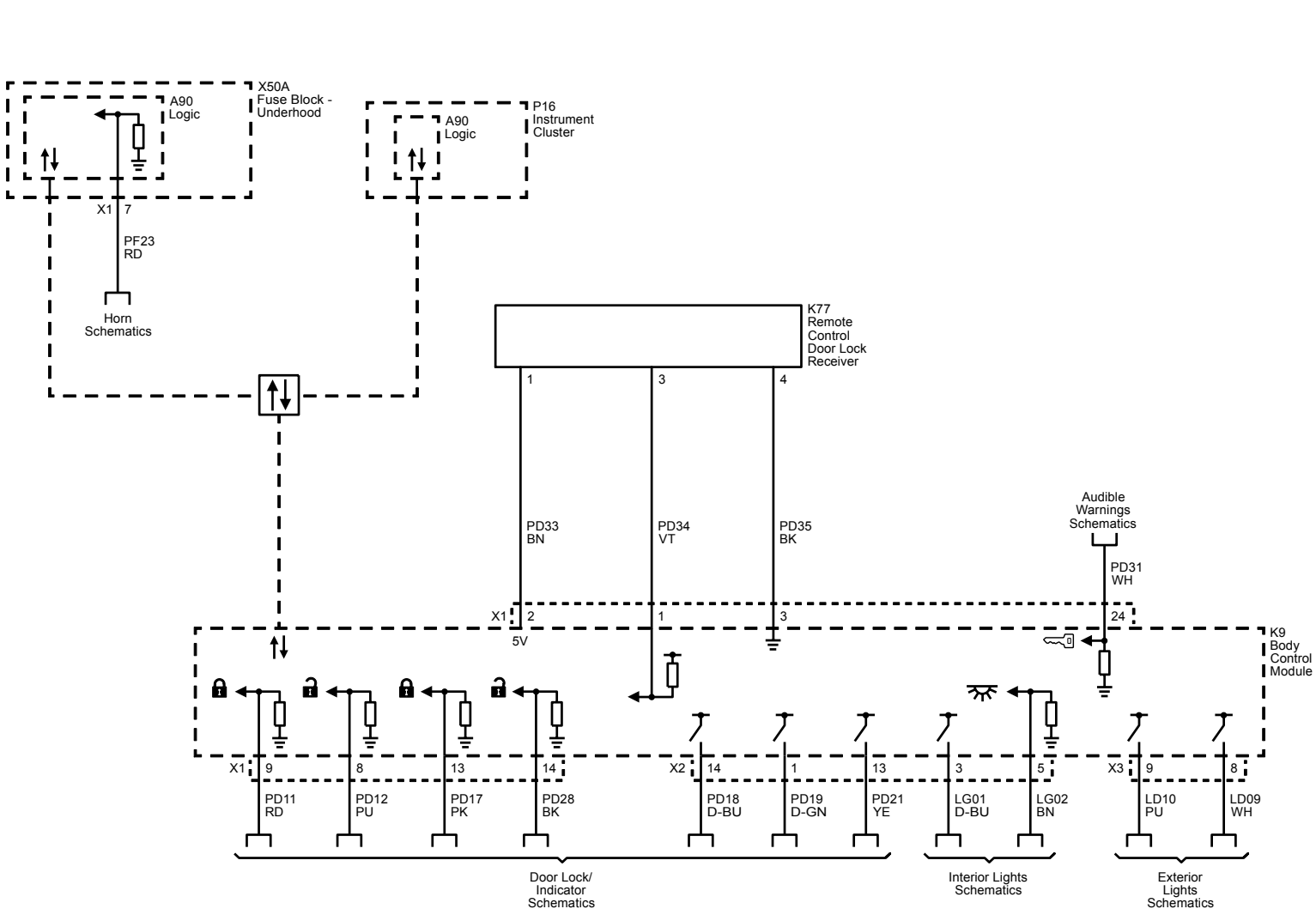
Safety and Security

Remote Functions

Schematic and Routing Diagrams

Remote Function Schematics

Keyless Entry



Description and Operation

Keyless Entry System Description and Operation

The keyless entry system is a vehicle entry device. The keyless entry system is used in conjunction with the body control module (BCM) to remotely activate certain vehicle features. Keyless entry will lock/unlock the doors when a corresponding button on the keyless entry transmitter is pressed. This is accomplished by the transmitter sending a radio frequency to the remote control door lock receiver (RCDLR). The RCDLR interprets the signal and activates the requested function via a serial data message to the BCM. A low transmitter or vehicle battery or radio frequency (RF) interference from aftermarket devices, such as 2-way radios, power inverters, computers, etc., may cause a system malfunction. High RF traffic areas may also cause interference that could lead to a malfunction. Keyless entry allows you to operate the following components:

- Door locks
- Vehicle locator/Panic alarm

The keyless entry system has the following components:

- Keyless entry transmitters
- BCM
- RCDLR

Keyless Entry Transmitters

The keyless entry transmitter are used to lock and unlock the vehicle doors from a distance of up to 33 feet (10 m) away.

Remote Control Door Lock Receiver (RCDLR)

The remote control door lock receiver (RCDLR) is a module that operates the keyless entry system. The RCDLR has an internal antenna that is used to receive radio frequency (RF) communications sent by the keyless entry transmitters. When an RF message is received from a keyless entry transmitter, the RCDLR interprets this signal and will request via serial data that the body control module (BCM) perform the specific function, i.e. door lock or door unlock.

Unlock Driver Door Only

Momentarily press the transmitter UNLOCK button in order to perform the following functions:

- Unlock only the driver door.
- Illuminate the interior lamps for a determined length of time, or until the ignition is turned ON.

Unlock All Doors – Second Operation

Momentarily press the transmitter UNLOCK button a second time, within 5 seconds of the first press, to perform the following functions:

- Unlock the remaining doors.
- Unlock the cargo doors.

Lock All Doors

Press the transmitter LOCK button to perform the following functions:

- Lock all vehicle doors.
- Immediately turn OFF the interior lamps.
- Flash the exterior lights, if enabled through personalization.
- Chirp the horn, if enabled through personalization.

Vehicle Locator/Panic Alarm

A single press of the panic button performs the following functions. Some functions may be dependent on personalization settings:

- Pulse the horn.
- Flash the exterior lamps.

A press and hold of the panic button performs the following functions:

- Pulse the horn and flash the exterior lamps for 30 second or until the following conditions occur:
  - The panic button is pressed.
  - The ignition switch is turned to the RUN position with a valid key.

Keyless Entry Personalization

Vehicle lock/unlock functions settings may be personalized. For functional descriptions and personalization instructions, refer to the vehicle owners manual.

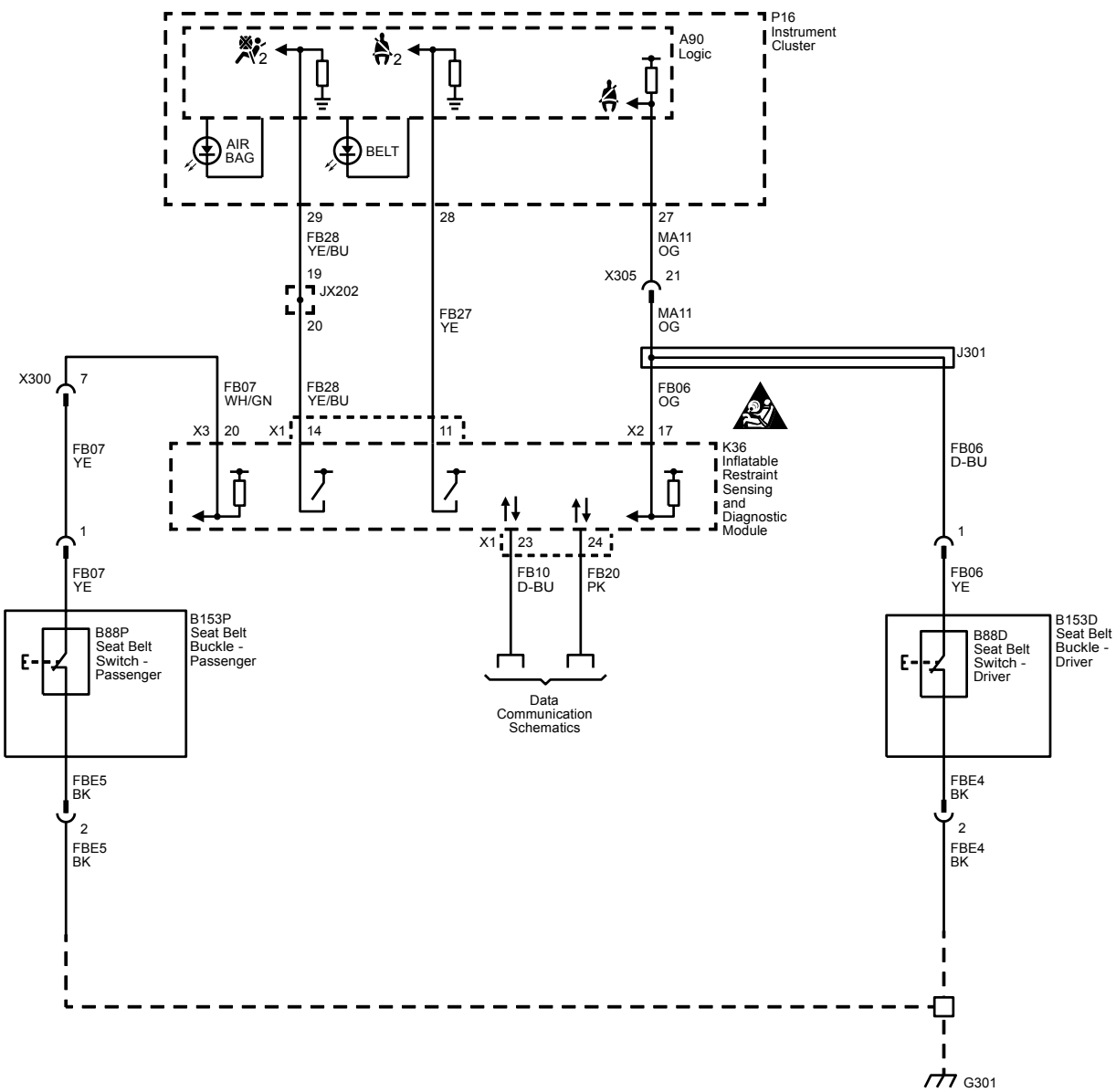
Safety and Security

Seat Belts

Schematic and Routing Diagrams

Seat Belt Schematics

Seat Belt



Safety and Security

Theft Deterrent

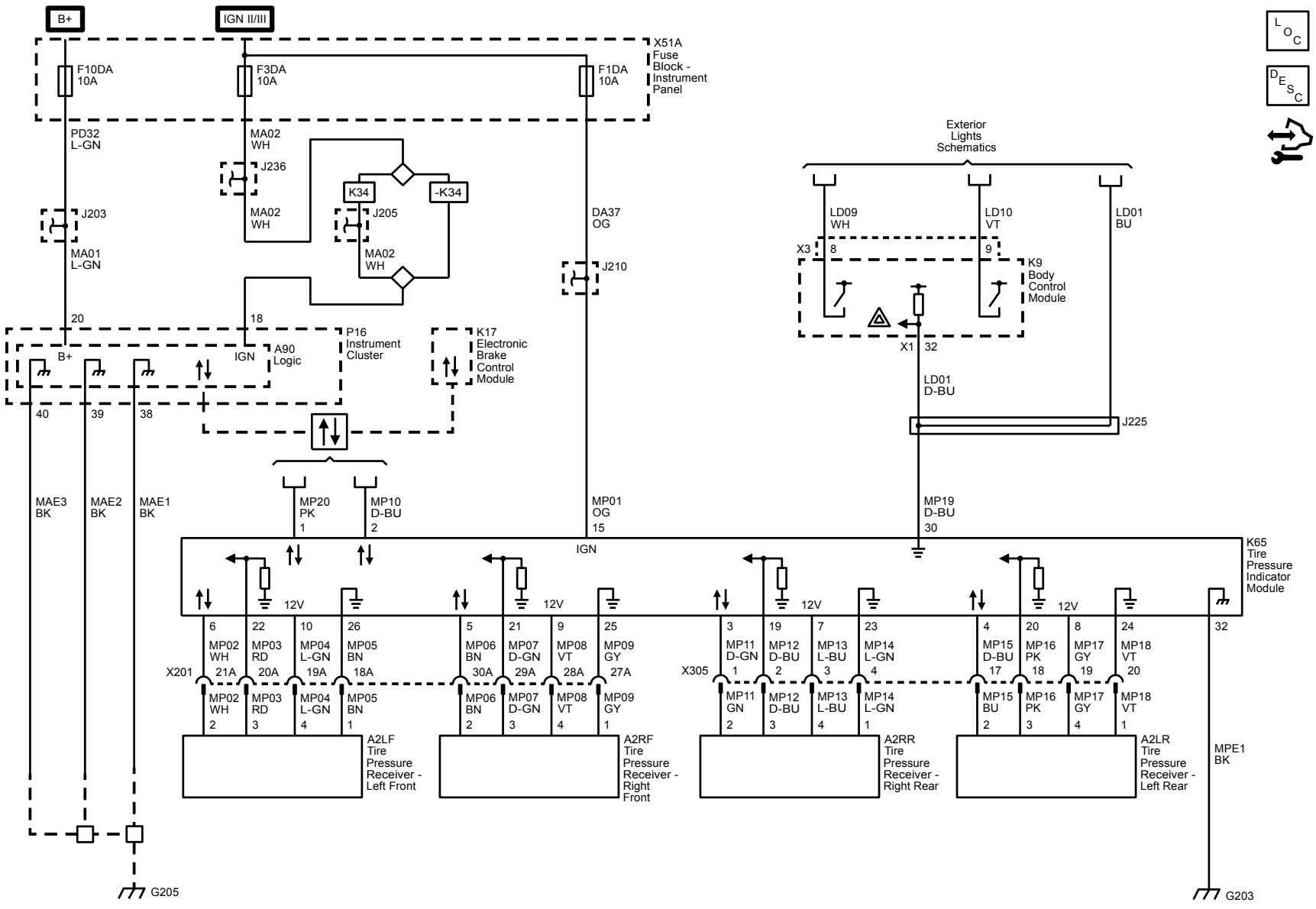
Suspension

Tire Pressure Monitoring

Schematic and Routing Diagrams

Tire Pressure Monitoring System Schematics

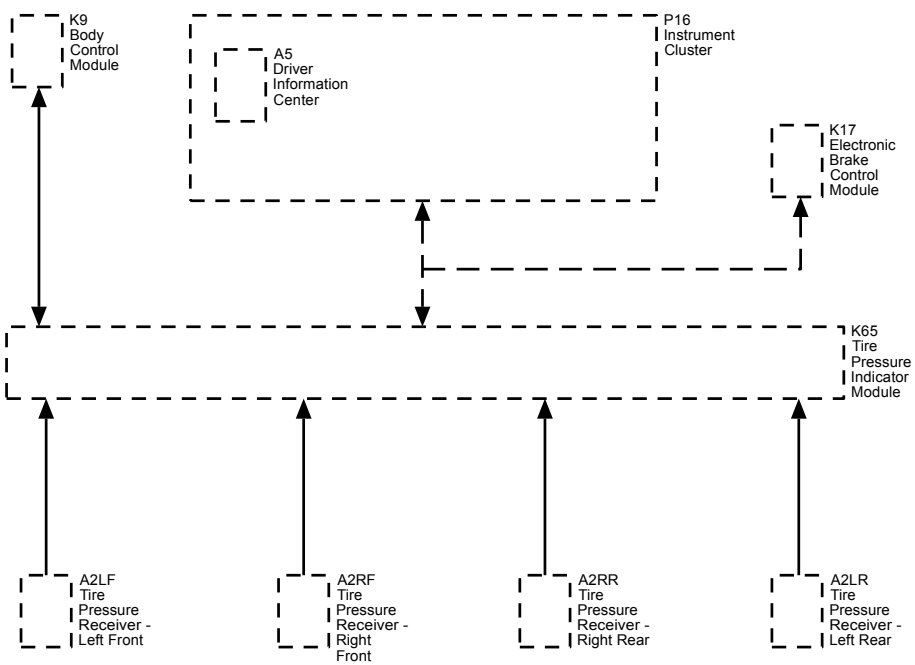
Tire Pressure Monitoring System



Description and Operation

Tire Pressure Monitor Description and Operation

Tire Pressure Monitoring Block Diagram



Special Tools

- *EL-46079/J-46079* Tire Pressure Monitor Diagnostic Tool
- *EL-50448* Tire Pressure Monitor Sensor Activation Tool

For equivalent regional tools, refer to CELL Link Error - Link target cell (cell ID 59410) is invalid for this publication..

The tire pressure monitor system warns the driver when a significant loss of tire pressure occurs in any of the 4 tires and allows the driver to display the individual tire pressures and their locations on the driver information center.

The system uses the tire pressure indicator module, body control module (BCM), driver information center, instrument cluster, a radio frequency (RF) transmitting pressure sensor in each wheel/tire assembly, left front tire pressure receiver, right front tire pressure receiver, right rear tire pressure receiver, and left rear tire pressure receiver. Each sensor has an internal power supply with an approximate 10 year service life.

When the vehicle is stationary, the sensor's internal accelerometer is inactive, which puts the sensors into a Stationary state. In this state the sensors sample tire pressure once every 30 s and do not transmit at all if the tire pressure does not change. As vehicle speed increases, centrifugal force activates the sensors internal accelerometer causing the sensors to go into Wake and then Drive mode. In Drive mode, the sensors sample tire pressure once every 30 s and transmits in Drive mode once every 60 s.

The front and rear tire pressure receivers receive the data from each sensors RF transmission for sensor presence, sensor mode, and tire pressure. The front and rear tire pressure receivers send the tire pressure and tire location data to the tire pressure indicator module. When a low tire pressure condition or another unusual symptom is sensed, the tire pressure indicator module sends tire information to the driver information center via serial data to illuminate the low tire pressure warning light on the instrument cluster. When the system is functioning normally, the low tire pressure warning lamp turns on for 1 s, then turns OFF after ignition ON.

The sensors continuously compare their last pressure sample to their current pressure sample and will transmit in Learn Mode-Pressure triggered if a 8.3 kPa (1.2 psi) change in tire pressure has been detected in either a Stationary or Drive state. When the tire pressure monitor system detects a significant loss, the low tire pressure warning light is illuminated on the instrument cluster and if equipped, a check tire pressure type message is displayed on the driver information center. Both the warning light and driver information center message can be cleared by adjusting the tire pressures to the recommended pressures and driving the vehicle above 40 km/h (25 mph).

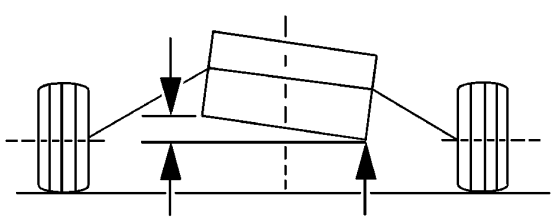
The tire pressure indicator module has the ability to detect malfunctions within the tire pressure monitor system. In the event a malfunction is detected, the low tire pressure warning light on the instrument cluster will flash for 1 min and then remain illuminated after the ignition is turned ON and the instrument cluster bulb check has been completed.

Suspension

Wheel Alignment

Description and Operation

Torque Steer Description



A vehicle pulls or leads in one direction during hard acceleration. A vehicle pulls or leads in the other direction during deceleration.

The following factors may cause torque steer to be more apparent on a particular vehicle:

- A slightly smaller diameter tire on the right front increases a right torque lead. Inspect the front tires for differences in the brand, the construction, or the size. If the tires appear to be similar, change the front tires from side-to-side and retest the vehicle. Tire and wheel assemblies have the most significant effect on torque steer correction.
- A large difference in the right and left front tire pressure
- Left-to-right differences in the front view axle angle may cause significant steering pull in a vehicle. The pull will be to the side with the most downward sloping axle from the differential to the wheels. Axles typically slope downward from the differential. The slope of the transaxle pan to level ground may be used as an indication of bias axle angles. The side with the higher transaxle pan, shown on the left side of the illustration, has the most downward sloping axle angle.

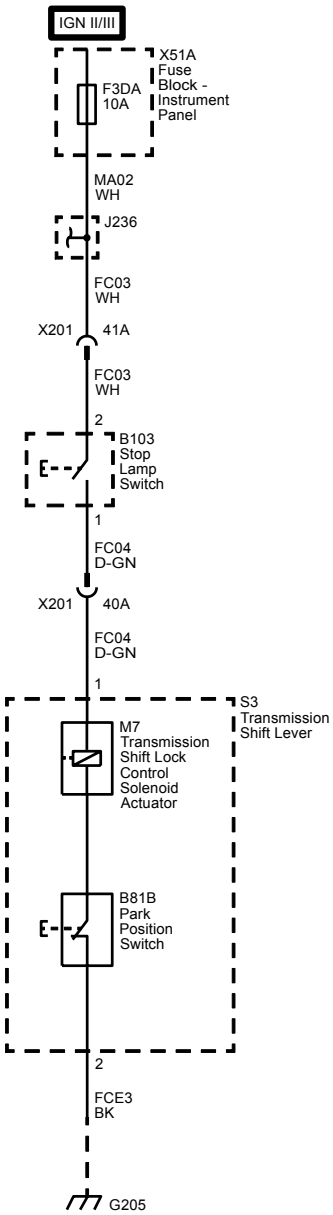
Transmission

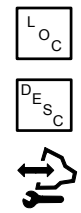
Shift Lock Control

Schematic and Routing Diagrams

Shift Lock Control Schematics

Shift Lock Control





Description and Operation

Automatic Transmission Shift Lock Control Description and Operation

Automatic Transmission Shift Lock Control System

The automatic transmission shift lock control system is a safety device that prevents an inadvertent shift out of PARK when the engine is running. The driver must press the brake pedal before moving the shift lever out of the PARK position. The system consists of the following components:

- The automatic transmission shift lock control solenoid
- The body control module (BCM)
- The transmission control module (TCM)
- The stop lamp switch
- The shift lock release button

The stop lamp switch controls the voltage supply circuit of the shift lock control solenoid. The following conditions must be met before voltage is supplied to the shift lock control solenoid:

- The ignition is in the ON position.
- The stop lamp switch turns ON when the brake pedal is applied.
- The shift lock release button is pressed.

With the above conditions met, the stop lamp switch supplies voltage to the shift lock control solenoid. When the brake pedal is depressed the stop lamp switch turns ON and the BCM sends a message via CAN communication to the TCM indicating the brakes are applied. With the stop lamp switch ON, voltage is supplied to the shift lock control solenoid. This energizes the shift lock control solenoid releasing the mechanical lock, allowing the driver to move the shift lever out of the PARK position.